(044)361-05-06
(067)469-02-12
(099)048-99-03
(093)672-77-76
ICQ:495-089-192
ICQ:613-211-859

User's Manual

DVD/CD/USB receiver JVC KW-AV50EE

In the online store Winauto you also can buy car receiver JVC KW-AV50EE. Delivery in Kyiv and throughout Ukraine with payment upon receipt!

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JVC

ENGLISH
ESPAÑOL
FRANÇAIS

MONITOR WITH DVD RECEIVER
MONITOR CON RECEPTOR DE DVD
MONITEUR AVEC RÉCEPTEUR DVD

KW-AV58
KW-AV50

Detachable

DVD VIDEO

DOLBY DIGITAL

COMPACT disc DIGITAL VIDEO

Amplifier Power Standard CEA-2006 Compliant

Made for iPod iPhone

DIVX

SAT RADIO READY

Only for KW-AV50
Sólo para KW-AV50
Uniquement pour le KW-AV50

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For canceling the display demonstration, see page 8.
Para cancelar la demonstración en pantalla, consulte la página 8.
Pour annuler la démonstration des affichages, référez-vous à la page 8.

For installation and connections, refer to the separate manual.
Para la instalación y las conexiones, refiérase al manual separado.
Pour l'installation et les raccordements, se référer au manuel séparé.

For customer Use:
Enter below the Model No. and Serial No. which are located on the top or bottom of the cabinet. Retain this information for future reference.

Model No. _____
Serial No. _____

INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MANUEL D'INSTRUCTIONS

LVT2285-001A
[J/JW]

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ENGLISH

Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1M レーザー放射が出ます。光学装置で直接見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)

3. **CAUTION:** (For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.
   (For Canada) Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

INFORMATION (For U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

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Caution:

Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

WARNINGS: (To prevent accidents and damage)

- DO NOT install any unit or wire any cable in a location where;
  – it may obstruct the steering wheel and gearshift lever operations.
  – it may obstruct the operation of safety devices such as air bags.
  – it may obstruct visibility.
- DO NOT operate the unit while driving.
  If you need to operate the unit while driving, be sure to look around carefully.
- The driver must not watch the monitor while driving.
- The driver must not put on the headphones while driving.

[European Union only]

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Cautions on the monitor:

- The monitor built in this unit has been produced with high precision, but it may have some ineffective dots. This is inevitable and is not considered defective.
- Do not expose the monitor to direct sunlight.
- Do not operate the touch panel using a ball-point pen or similar tool with the sharp tip.
  Touch the buttons on the touch panel with your finger directly (if you are wearing a glove, take it off).
- When the temperature is very cold or very hot...
  – Chemical changes occur inside, causing malfunction.
  – Pictures may not appear clearly or may move slowly. Pictures may not be synchronized with the sound or picture quality may decline in such environments.

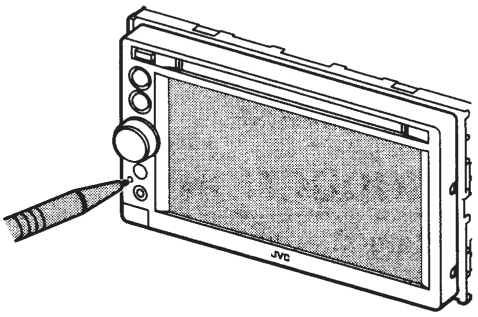
For safety...

- Do not raise the volume level too much, as this will make driving dangerous by blocking outside sounds, and may cause hearing loss.
- Stop the car before performing any complicated operations.

Temperature inside the car...

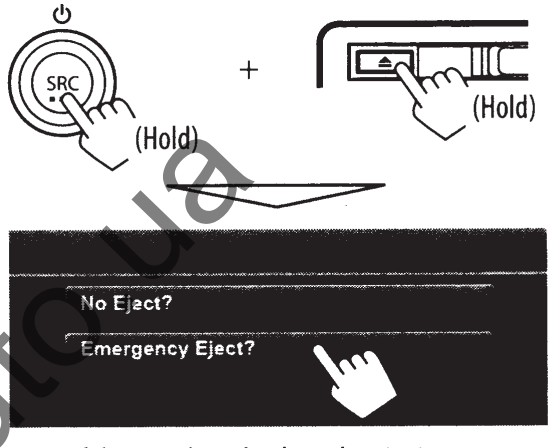
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

How to reset your unit



- *Your preset adjustments will also be erased (except the registered Bluetooth devices).*

How to forcibly eject a disc



- *Be careful not to drop the disc when it ejects.*
- *If this does not work, reset your unit. (☞ above)*

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How to read this manual:

- Illustrations of KW-AV50 are mainly used for explanation.
- This manual mainly explains operations using the buttons on the monitor panel and touch panel. For operations using the remote controller (RM-RK252: supplied only for KW-AV58), ☞ page 53.
- < > indicates the variable screens/menus/operations/settings that appear on the touch panel.
- [ ] indicates the buttons on the touch panel.
- **Indication language:** English indications are used for the purpose of explanation. You can select the indication language from the <**Settings**> menu. (☞ page 48)

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ENGLISH

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INTRODUCTIONS

Detaching/attaching the monitor panel

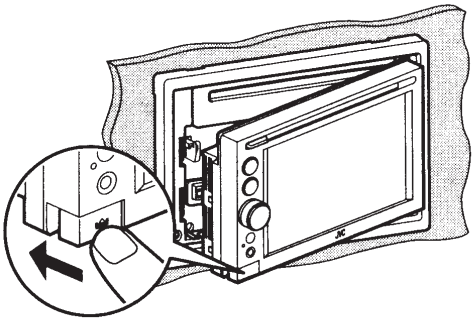
Cautions

- Hold the monitor panel securely so as not to drop it accidentally.
- Fit the monitor panel onto the attaching plate until it is firmly locked.

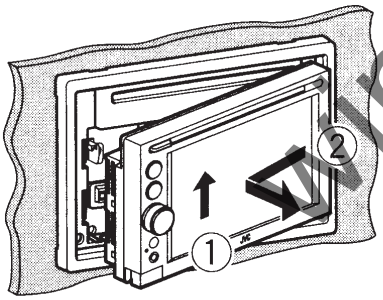
Detaching

Turn off the ignition switch before detaching the monitor panel.

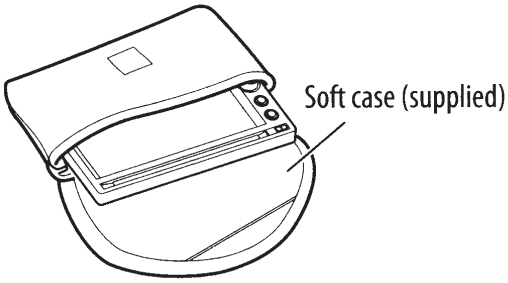
1



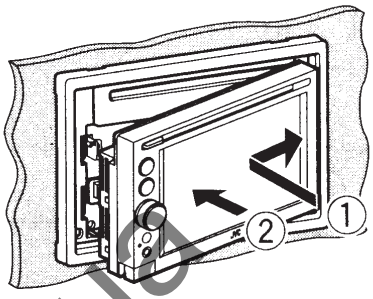
2



3



Attaching



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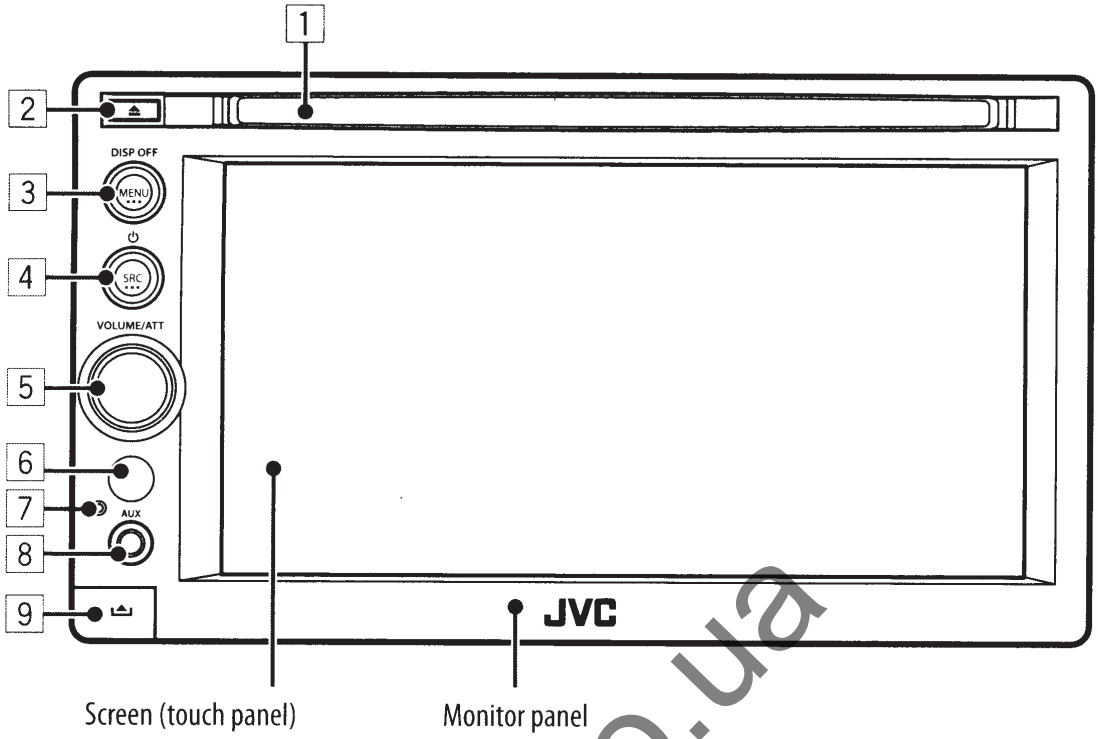
Component names and functions

ENGLISH



1 Loading slot

2 ⏏ (Eject) button
Ejects the disc.

3 MENU/DISP OFF button
- Displays <**AV Menu**> screen. (Press) (☞ page 12)
- Turns off/on the screen. (Hold) (☞ page 10)

4 SRC/⏻ button
- Selects the AV source. (Press) (☞ page 13)
- Turns off the AV source. (Hold)

5 VOLUME/ATT knob (☞ page 10)
- Attenuates the sound. (Press)
- Adjusts the audio volume. (Turn)

6 Remote sensor

7 Reset button
Resets the unit. (☞ page 3)

8 AUX input terminal

9 ⏏ (Detach) button
Detaches the monitor panel. (☞ page 5)

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Caution on volume setting:
Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

You can change the color of the buttons on the monitor panel. (☞ page 40)

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Initial Settings

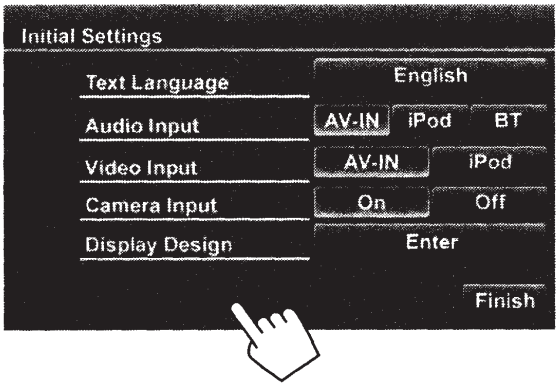
When you power on the unit for the first time or reset the unit, the initial setting screen appears.

- You can also change the settings on the <**Settings**> screen. (☞ page 45)

1 Turn on the ignition switch.

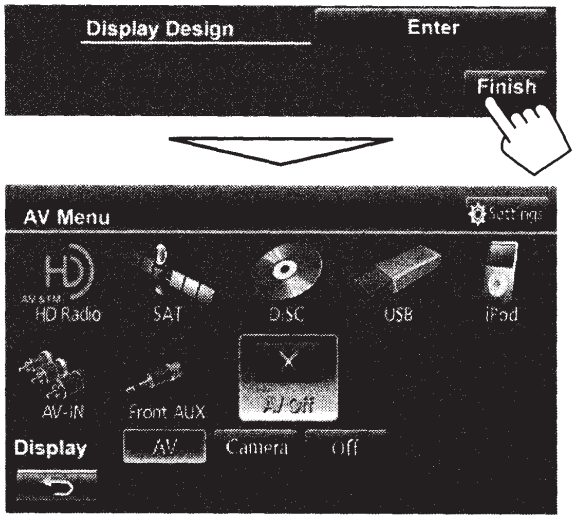
The power is turned on, and the initial setting screen appears.

2



Text Language	Select the text language used for on-screen information. (☞ page 48)
Audio Input	Select the use of the LINE IN jacks. (☞ page 47)
Video Input	Select the use of the VIDEO IN jack. (☞ page 47)
Camera Input	Select <**On**> when connecting the rear view camera. (☞ page 47)
Display Design	Select the background and the colors of the text and the monitor panel buttons. (☞ page 40)

3 Finish the procedure.



<**AV Menu**> is displayed.

- <**AV Off**> is selected initially. Select the playback source. (☞ page 13)

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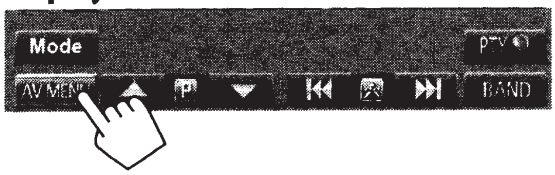
Canceling the display demonstration and setting the clock

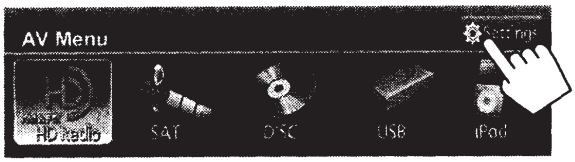
ENGLISH

Canceling the display demonstration

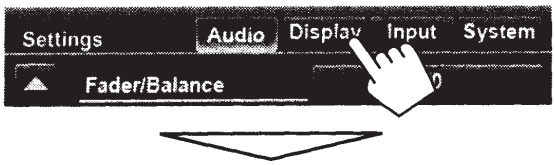
1 Display <AV Menu> screen.



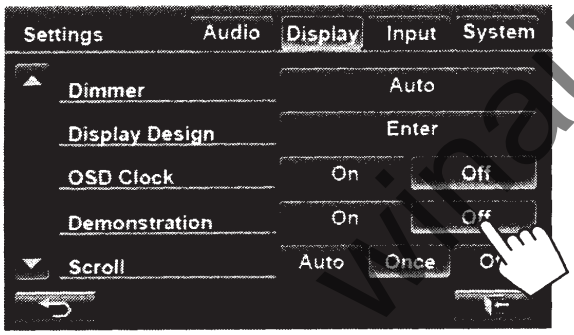
2 Display <Settings> screen.



3



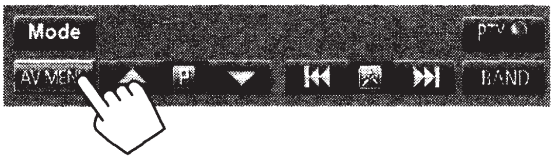
Select <**Off**>.



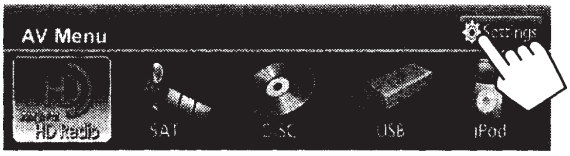
4 Finish the procedure.

Setting the clock

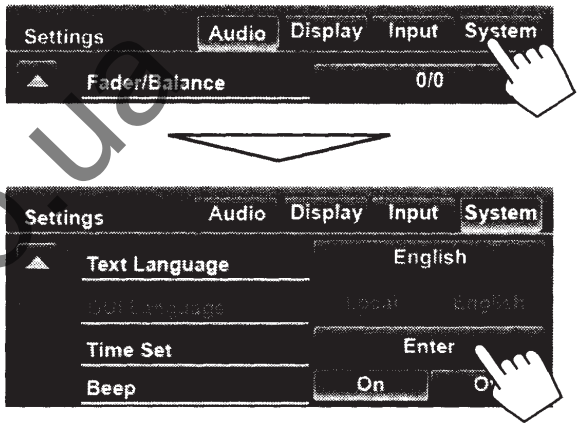
1 Display <AV Menu> screen.



2 Display <Settings> screen.



3



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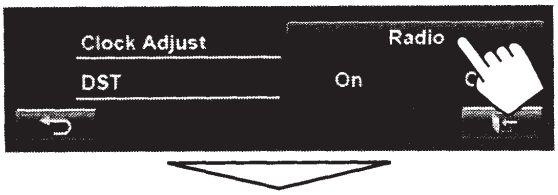
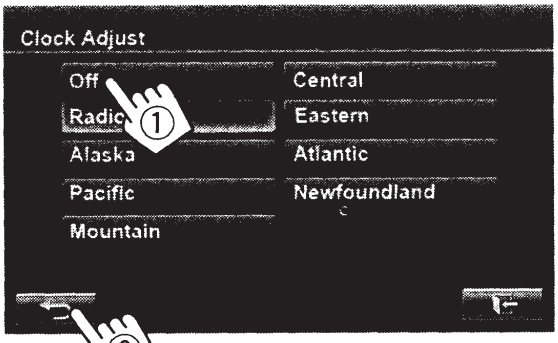
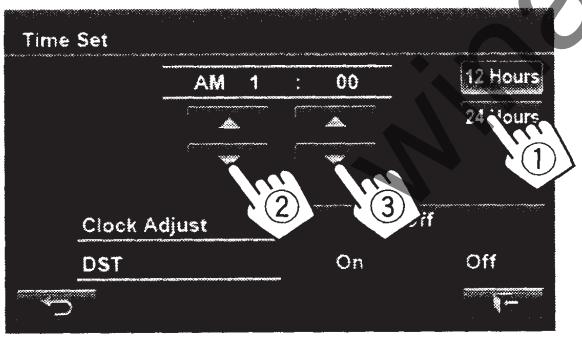
4 Set the clock time.



To set the clock manually





① Select the time display format

② Adjust the hour

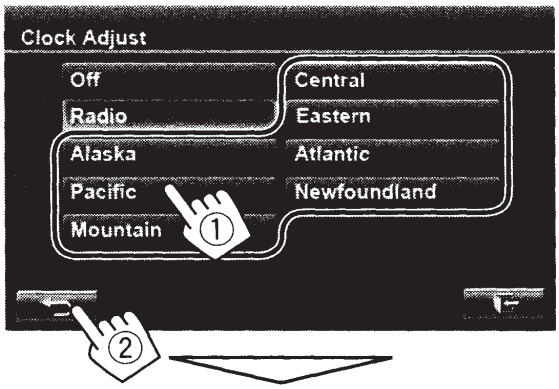
③ Adjust the minute

To synchronize the clock time with FM RBDS

To synchronizes the clock time data from the SIRIUS satellite radio channel (Only for KW-AV50)

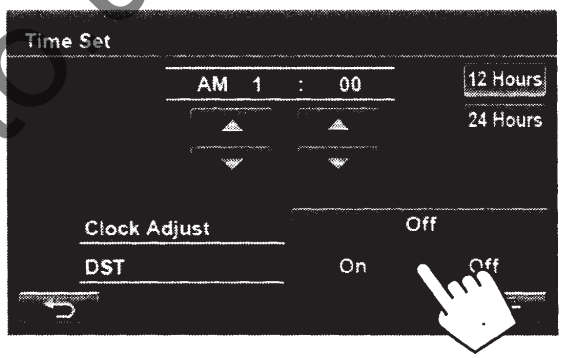
- Available only when SIRIUS Satellite Radio is connected.

Select your residential area.



Select <**Off**> or <**On**> for Daylight Saving Time.

- Select <**On**> if your residential area is subject to Daylight Saving Time.



5 Finish the procedure.

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Turning on the power

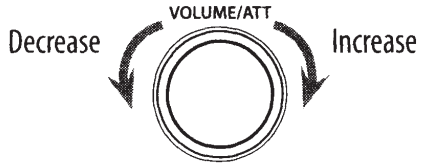
Turn on the ignition switch.

- The power is turned off when the ignition switch is turned off.

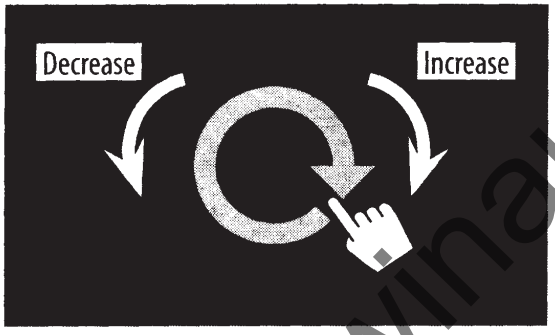
Adjusting the volume

To adjust the volume

- About the adjustable volume range, ☞ page 45 (<**Amplifier Gain**>).



- On the control screen, you can also adjust the volume by moving your finger on the touch panel as illustrated.

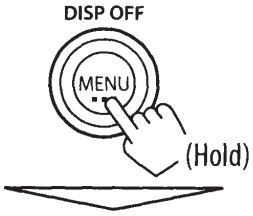


To attenuate the sound

The ATT indicator lights up.

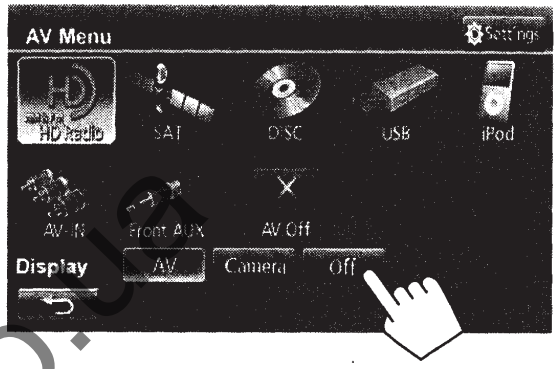
To cancel the attenuation, press the volume adjustment knob.

Turning off the screen



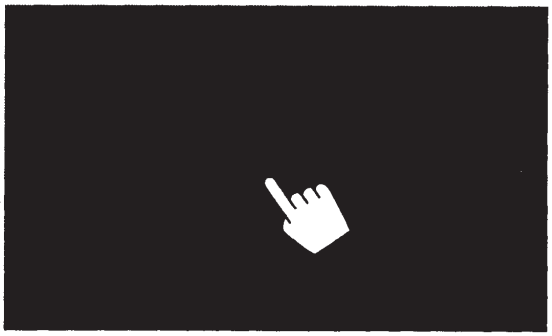
The screen is turned off.

- You can also turn off the screen on <**AV Menu**> screen.



To return to the <AV Menu> screen

Touch the screen.



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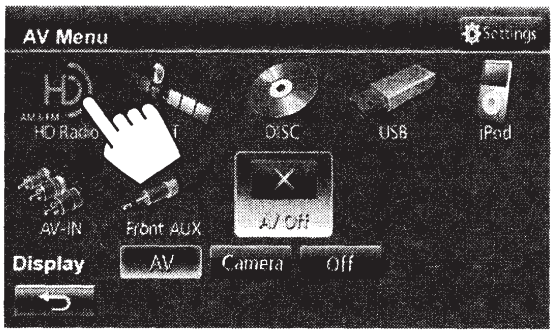
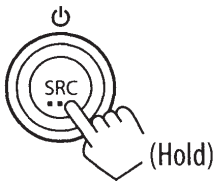
Turning on the AV source

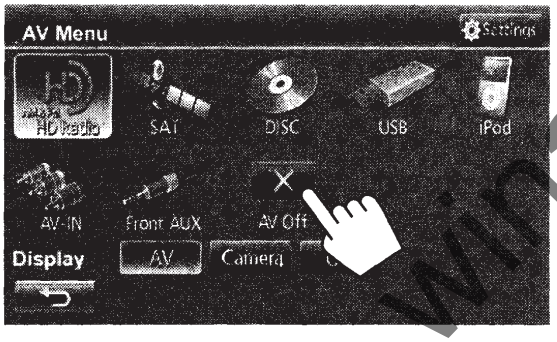
You can activate the AV function by selecting source on <**AV Menu**> screen.



To turn off the AV source

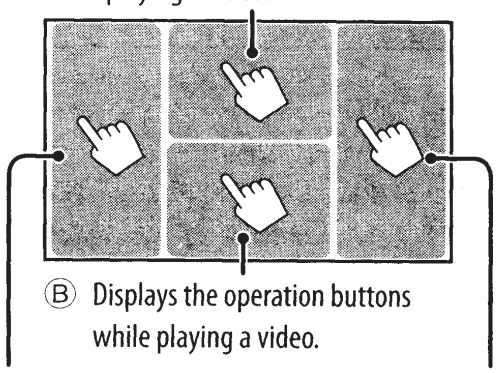


or



Touch screen operation

Ⓐ Displays the video control menu while playing a video.



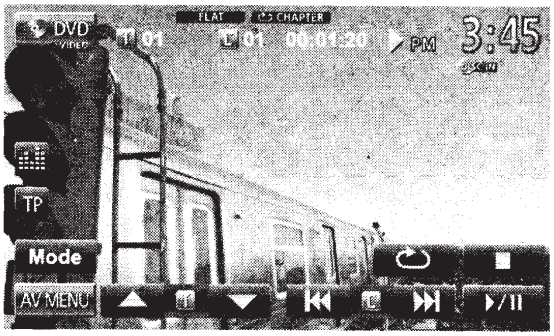
Ⓑ Displays the operation buttons while playing a video.

Goes to the previous chapter/track.*

Goes to the next chapter/track.*

Ⓐ Video control menu

Ⓑ Source control screen for video playback



- The operation buttons disappear by touching the screen or when no operation is done for about 10 seconds.

* *Not available for video from an external component. Dragging your finger to left or right functions in the same way as touching.*

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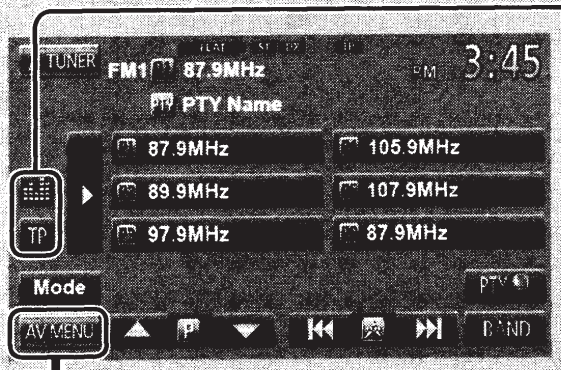
Switching screens

ENGLISH

Source control screen



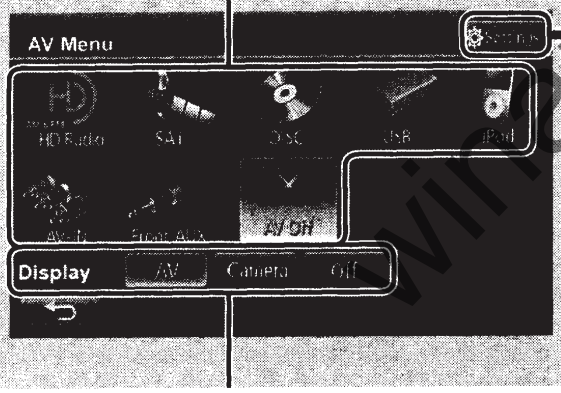
Common operating buttons

[ ]	Displays the sound adjustment screen. (☞ page 38)
[**TP**]	Activates/deactivates TA standby reception mode. (☞ page 17)

<AV Menu>

- Changes the AV source.
- Displays the <**Settings**> screen.

☞ page 13



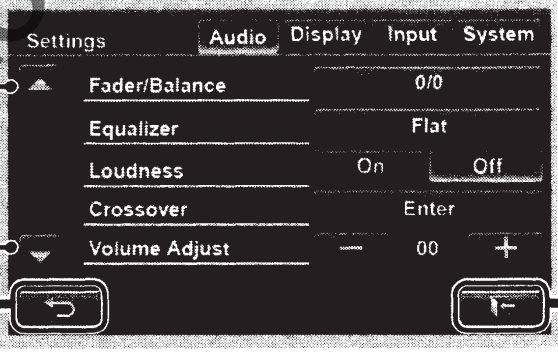
Select an item to display on the screen.

[**AV**]	Displays the source control screen. (☞ above)
[**Camera**]	Displays the picture from the rear view camera. (☞ page 44)
[**Off**]	Turns off the screen. (☞ page 10)

<Settings>

Changes the detailed settings. (☞ page 45)

Changes the page



- Press [ ] to return to the previous screen.
- Press [ ] to display the current source control screen.

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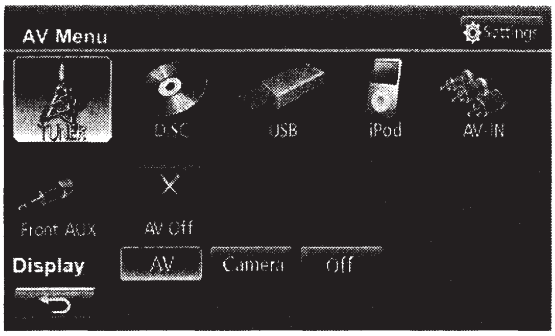
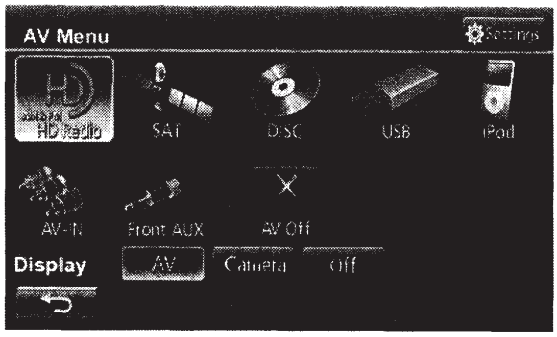
AV SOURCE OPERATIONS

Selecting the playback source

KW-AV58



KW-AV50



TUNER(☞ page 14)/**HDRADIO***1*2 (☞ page 36)	Switches to the conventional radio broadcast/HD Radio broadcast.
SAT*1 (☞ page 33)	Switches to the satellite radio broadcast.
DISC (☞ page 18)	Plays a disc.
USB (☞ page 25)	Plays files on a USB device.
iPod (☞ page 27)	Plays an iPod/iPhone.
AV-IN*3 (☞ page 32)	Switches to an external component connected to LINE IN/VIDEO IN jacks on the rear panel.
Bluetooth*4 (☞ page 51)	Operates a Bluetooth device.
Front AUX (☞ page 32)	Switches to an external component connected to AUX input terminal on the monitor panel.
AV Off	Turns off the AV source.

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*1 *Only for KW-AV50.*

*2 *"HD RADIO" is shown as the source instead of "TUNER" when the HD Radio tuner box is connected.*

*3 *Select an appropriate input setting on <**Audio Input**>. (☞ page 47)*

*4 *"**Bluetooth**" is shown as the source instead of "**AV-IN**" when <**Audio Input**> is set to <**BT**>. (☞ page 47)*

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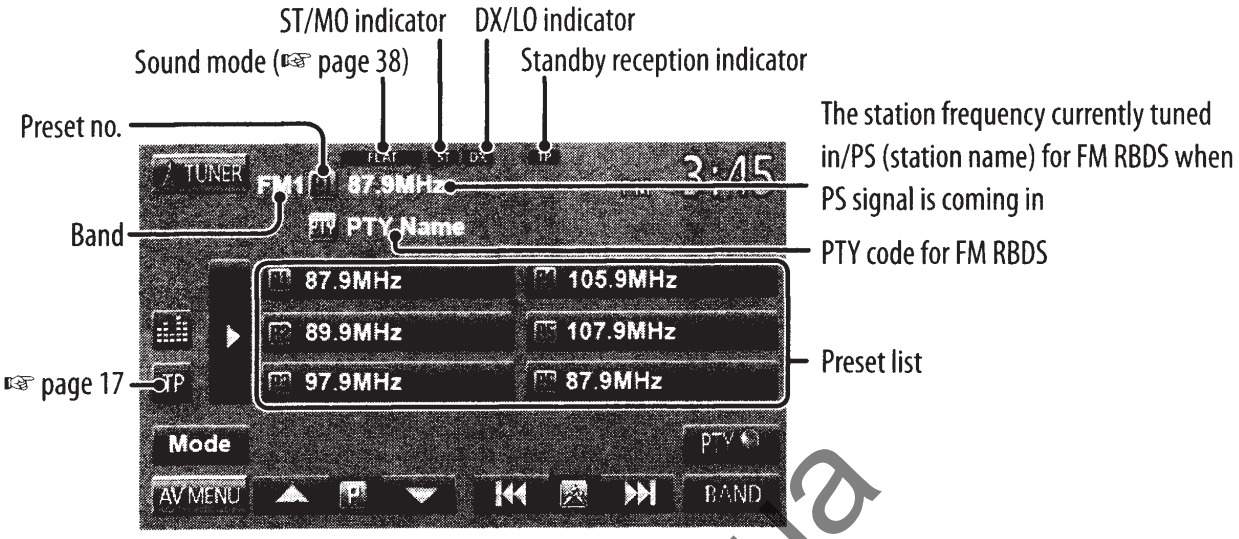
Listening to the radio

ENGLISH

Preparation: Select the appropriate tuner channel interval for <**Area Setting**>. (☞ page 16)

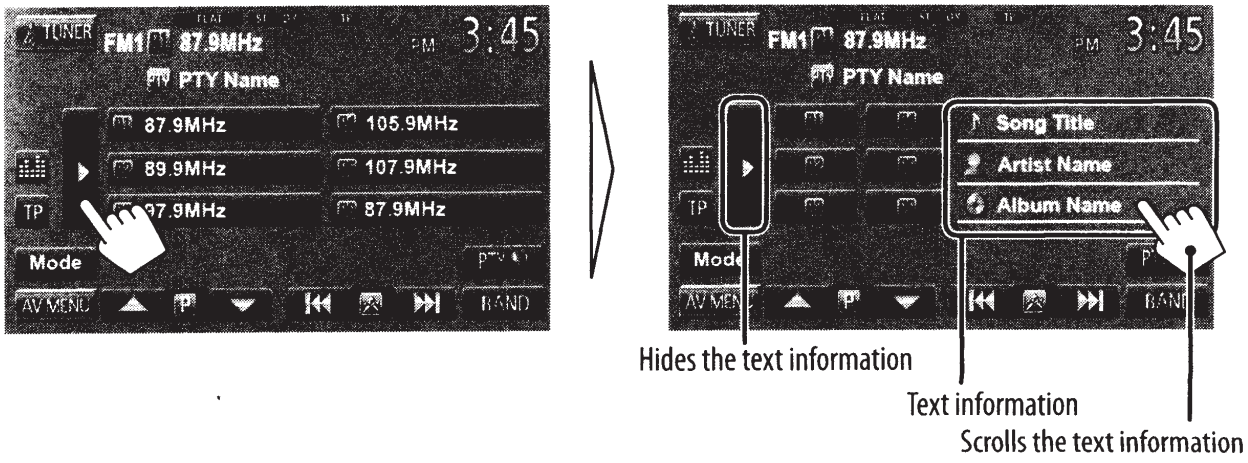


- The ST indicator lights up when receiving an FM stereo broadcast with sufficient signal strength.

[**P1**] – [**P6**]	• Tunes in the preset station. (Press) • Presets the currently tuned station. (Hold)
[**TP**]*	Activates/deactivates TA standby reception mode. (☞ page 17)
[**PTY** 🔍]*	Enters FM RBDS program search mode. (☞ page 17)
[►]	Displays/hides the information of the current station (☞ below).
[**BAND**]	Selects the band. →FM1→FM2→FM3→AM
[◄◄] [►►]	Searches for a station. • Auto search (Press) • Manual search (Hold)
[▲] **P** [▼]	Selects a preset station.
[**Mode**]	Displays tuner setting screen. (☞ pages 15 – 16)
[**AV MENU**]	Displays <**AV Menu**> screen.

* *Appears only when FM is selected as the source.*

Displaying the information of the current station



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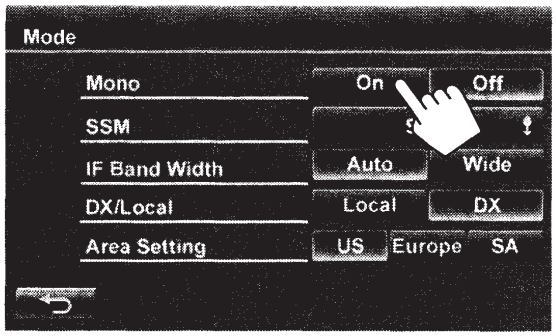
Интернет-магазин автозвука и автотоваров Винавто

When an FM stereo broadcast is hard to receive...

Activate monaural mode for better reception.

1

2

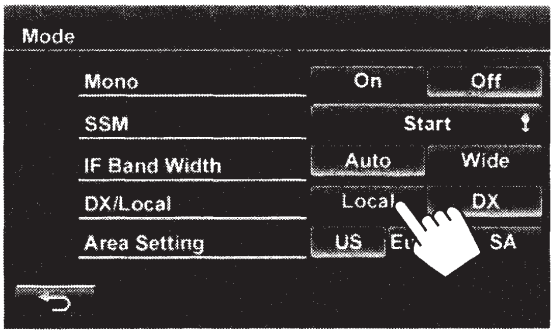


On	Activate monaural mode to improve FM reception, but stereo effect will be lost. The MO indicator lights up.
Off	Restore the stereo effect.

To tune in FM stations only with strong signals—LO/DX (Local/Distance-extreme)

1

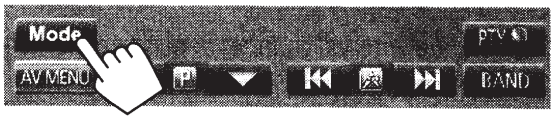
2



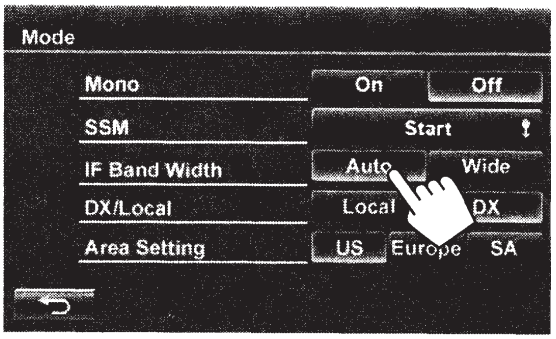
Local	Select this to tune in only to stations with sufficient signal strength. The LO indicator lights up.
DX	Deactivate the function. The DX indicator lights up.

When the FM reception is interfered...

1



2



Auto	Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.)
Wide	Subject to the interference from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.

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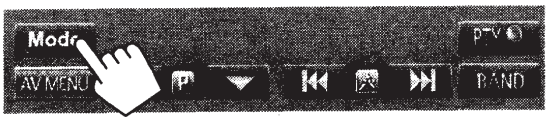
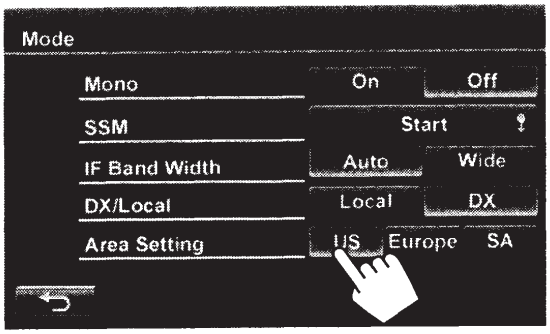
Changing the tuner channel interval

Tuner channel interval changes depending on the area you use this unit.

1



2



US	Select this when using in North/ Central/South America. FM/AM intervals are set to 200 kHz/10 kHz.
Europe	Select this when using in any other areas. FM/AM intervals are set to 50 kHz/9 kHz.
SA	Select this when using in South American countries where FM interval is 50 kHz. AM interval is set to 10 kHz.

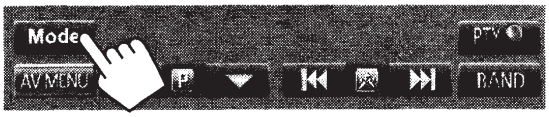
- Initial setting is <**US**> for KW-AV50, and <**SA**> for KW-AV58.

Storing stations in memory

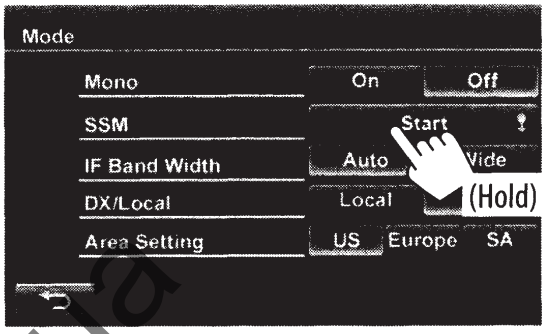
You can preset six stations for each band.

Automatic presetting—SSM (Strong-station Sequential Memory) (For FM only)

1



2



Local stations with the strongest signals are searched and stored automatically.

Manual presetting

1 Tune in to a station you want to preset.
(☞ page 14)

2 Select a preset number.

The station selected in step **1** is stored.

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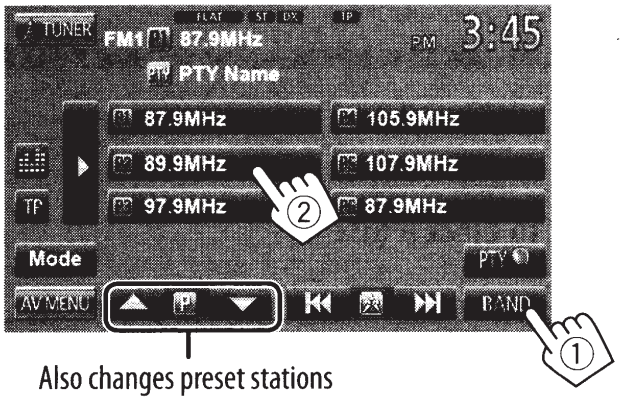
Selecting a preset station



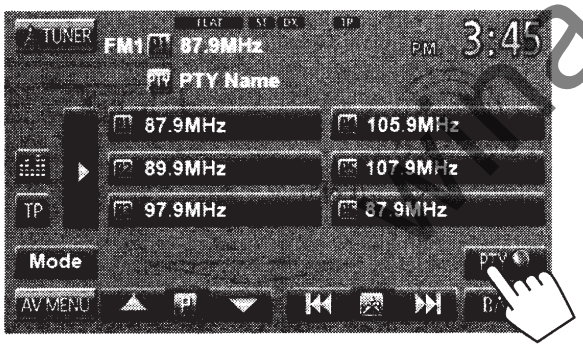
Also changes preset stations

The following features are available only for FM RBDS stations.

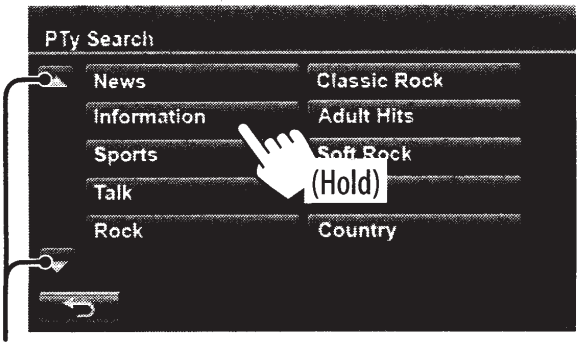
Searching for FM RBDS program—PTY Search

You can search for your favorite programs being broadcast by selecting the PTY code for your favorite programs.

1



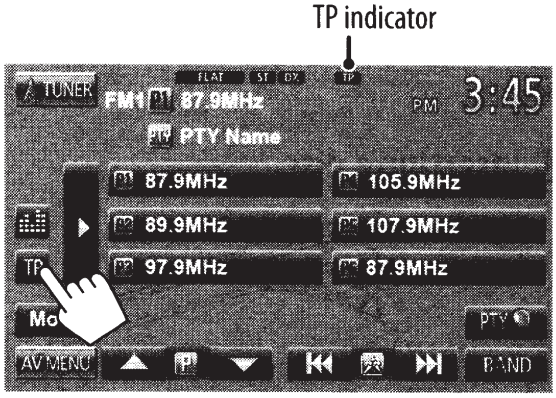
2 Select a PTY code.



Changes the page

PTY Search starts.
If there is a station broadcasting a program of the same PTY code as you have selected, that station is tuned in.

Activating/deactivating TA Standby Reception



TP indicator	TA Standby Reception
Lights up	The unit will temporarily switch to Traffic Announcement (TA) if available.
Flashes	Not yet activated. Tune in to another station providing the RBDS signals.
Goes off	Deactivated.

- The volume adjustment for Traffic Announcement is automatically memorized. The next time the unit switches to Traffic Announcement, the volume is set to the previous level.

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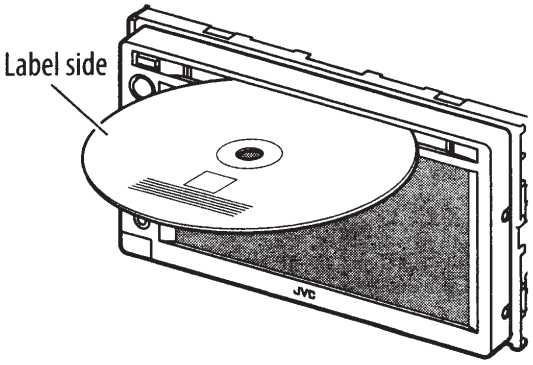
Disc operations

ENGLISH

Playing a disc

- If a disc does not have any disc menu, all tracks on it will be played repeatedly until you change the source or eject the disc.

Inserting a disc

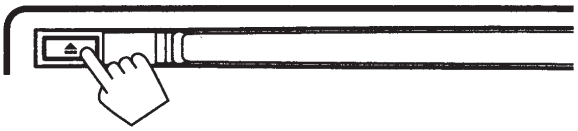


The source changes to "**DISC**" and playback starts.

- The DISC IN indicator lights up while a disc is inserted.

- If "⃠" appears on the screen, the unit cannot accept the operation you have tried to do.
  – In some cases, without showing "⃠", operations will not be accepted.
- When playing back a multi-channel encoded disc, the multi-channel signals are downmixed to stereo.

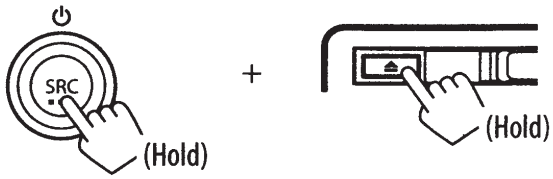
To eject a disc

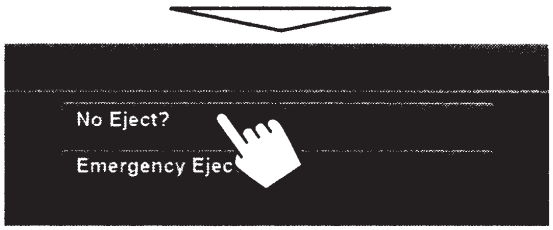


- You can eject a disc when playing another AV source.
- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust.
- If the disc cannot be ejected, ☞ page 3.

When removing a disc, pull it horizontally.

To prohibit disc ejection





To cancel the prohibition, repeat the same procedure to select <**Eject OK?**>.

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Playable disc type

Disc type	Recording format, file type, etc	Playable
DVD • DTS sound cannot be reproduced or emitted from this unit.	DVD-Video *1 Region Code: • For KW-AV50: 1 • For KW-AV58: 4	✓OK
	DVD-Audio/DVD-ROM	✗NO
DVD Recordable/Rewritable (DVD-R/-RW *2, +R/+RW *3) • DVD Video: UDF bridge • DVD-VR • DivX*4/MPEG1/MPEG2/JPEG/MP3/WMA/WAV: ISO 9660 level 1, level 2, Romeo, Joliet	DVD-Video	✓OK
	DVD-VR *5	
	DivX*4/MPEG1/MPEG2	
	JPEG	
	MP3/WMA/WAV	
	MPEG4/AAC/DVD+VR/DVD-RAM	✗NO
Dual Disc	DVD side	✓OK
	Non-DVD side	✗NO
CD/VCD	Audio CD/CD Text (CD-DA)	✓OK
	VCD (Video CD)	
	DTS-CD/SVCD (Super Video CD)/CD-ROM/CD-I (CD-I Ready)	✗NO
CD Recordable/Rewritable (CD-R/-RW) • ISO 9660 level 1, level 2, Romeo, Joliet	CD-DA	✓OK
	VCD (Video CD)	
	DivX*4/MPEG1/MPEG2	
	JPEG	
	MP3/WMA/WAV	
	MPEG4/AAC	✗NO

*1 *If you insert a DVD Video disc of an incorrect Region Code, "Region Code Error" appears on the screen.*

*2 *DVD-R recorded in multi-border format is also playable (except for dual layer discs). DVD-RW dual layer discs are not playable.*

*3 *It is possible to play back finalized +R/+RW (Video format only) discs. "DVD" is selected as its disc type when a +R/+RW disc is loaded. +RW double layer discs are not playable.*

*4 *Only for KW-AV50.*

*5 *This unit cannot play back contents protected with CPRM (Content Protection for Recordable Media).*

Caution for DualDisc playback

The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

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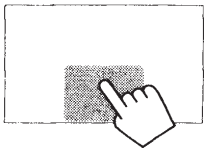
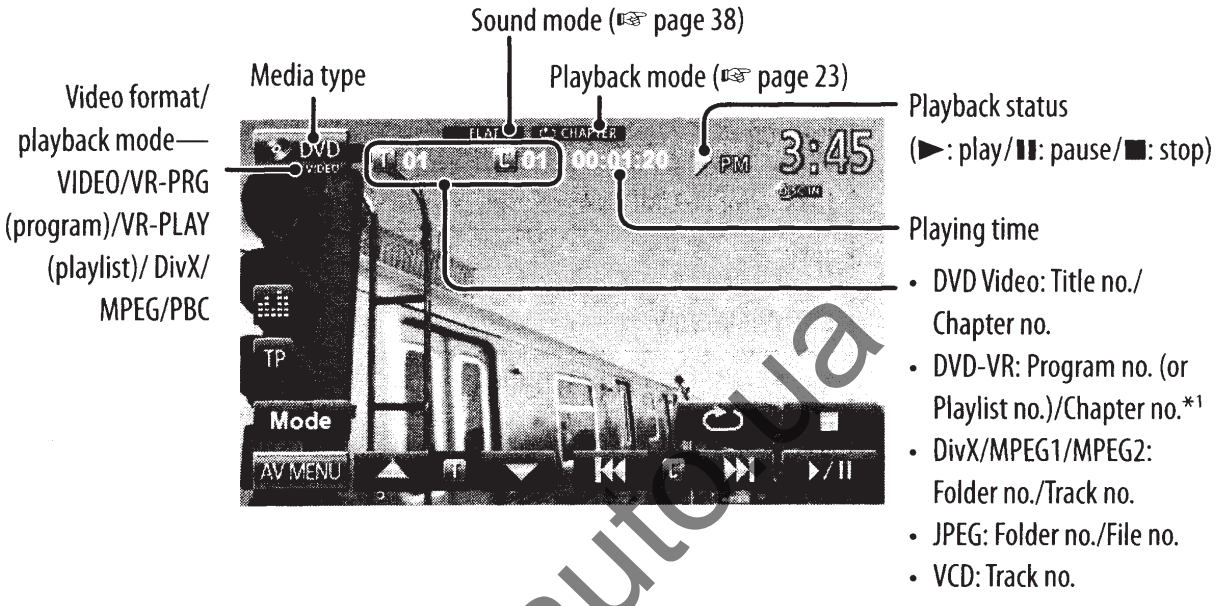
Playback operations

ENGLISH

- When the operation buttons are not displayed on the screen, touch the area shown on the illustration.



For DVD/DVD-VR/VCD/DivX/MPEG1/MPEG2/JPEG



[↻] [↓↑]*2	Selects playback mode. (☞ page 23)
[►/❚❚]	Starts playback/pauses.
[■]*3	Stops playback.
[I◄◄] C [►►I]	• Selects chapter. (Press) • Reverse/forward search.*4 (Hold)
[▲] T*5 [▼]	Selects title (DVD)/program or playlist (DVD-VR). *1
[**Mode**]*6	Changes the settings for disc playback. (☞ page 24)
[**AV MENU**]	Displays <**AV Menu**> screen.

- For VCD/DivX/MPEG1/MPEG2/JPEG, the following buttons also appear:

[▇]*6	Displays folder/track list. (☞ page 21)
[I◄◄] ♪*5 [►►I]	• Selects track. (Press) • Reverse/forward search.*4 (Hold)
[▲] ▇ [▼]*6	Selects folder.

*1 *To display the Original Program/Playlist screen, ☞ page 22.*

*2 *Does not appear for DVD/DVD-VR/JPEG.*

*3 *Appears only for DVD/DVD-VR/VCD.*

*4 *Search speed varies depending on the type of disc or file.*

*5 *Displayed icon varies depending on the type of disc or file.*

*6 *Does not appear for VCD.*

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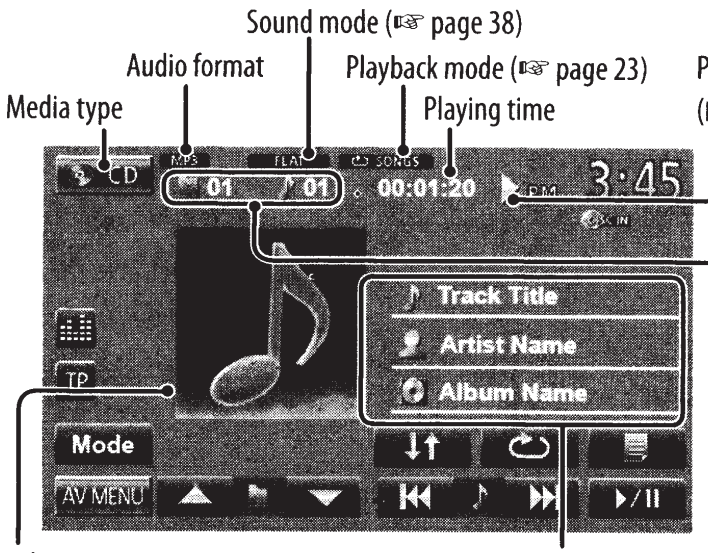
For CD/MP3/WMA/WAV



[↻] [⇅]	Selects playback mode. (☞ page 23)
[ ]*1	Displays folder/track list. (☞ below)
[►/❚❚]	Starts playback/pauses.
[I◄◄] [►►I]	• Selects track. (Press) • Reverse/forward search.*2 (Hold)
[▲] [▼]*1	Selects folder.
[**Mode**]*1	Changes the settings for disc playback. (☞ page 24)
[**AV MENU**]	Displays <**AV Menu**> screen.

*1 *Does not appear for CD.*

*2 *Search speed varies depending on the type of disc or file.*

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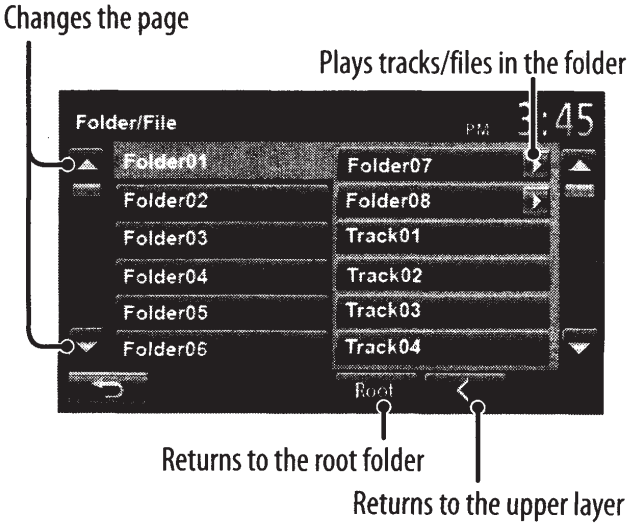
Selecting folder/track on the list



Playing Recordable/Rewritable discs

- This unit can recognize a total of 5 000 files and 250 folders (a maximum of 999 files per folder).
- Use only "finalized" discs.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some discs or files may not be played back due to their characteristics or recording conditions.

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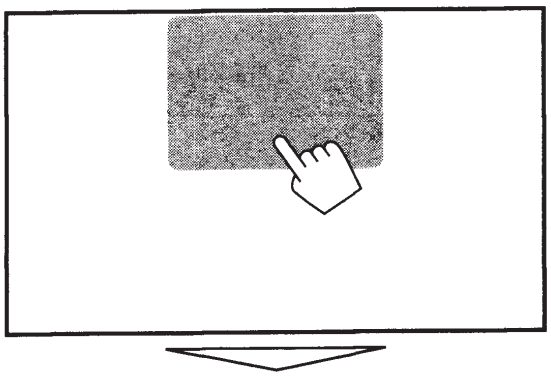
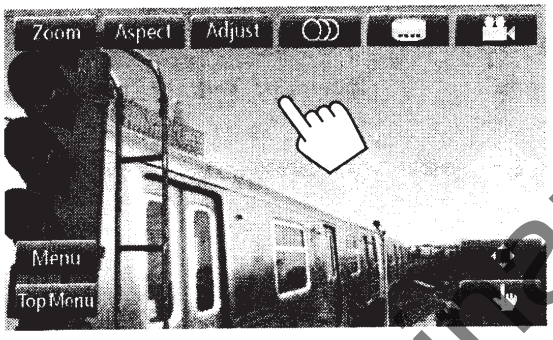
Video menu operations

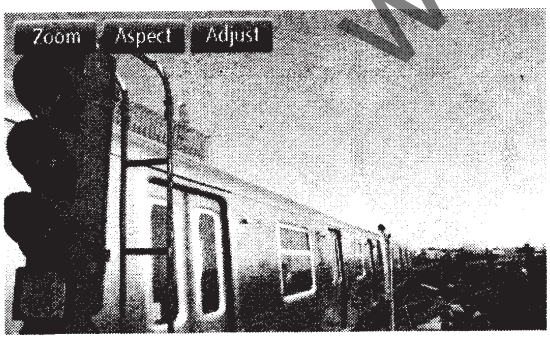
You can display the video menu screen while watching the playback pictures on the screen.

- Available items on the screen differ depending on the types of the loaded disc and playback files.
- The operation buttons disappear by touching the screen or when no operation is done for about 10 seconds.





- The screen for MPEG1/MPEG2 differs from the above.



[◯◯◯] Selects the audio type.
- For DVD-VR: Selects the audio channel (ST: stereo, L: left, R: right).

[▬] Selects the subtitle type.

[🎥] Selects view angle.

[**Menu**] Displays the disc menu (DVD)/ playlist (DVD-VR).

[**Top Menu**] Displays the disc menu (DVD)/ original program (DVD-VR).

[◆] Displays the menu/playlist/original program item selecting screen. (☞ below)

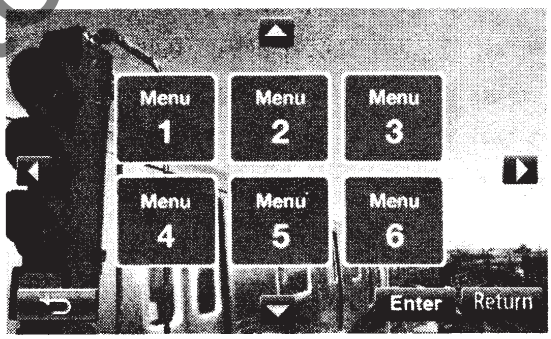
[☝] Switches to the direct menu selection mode. Touch the target item to select.
- To exit from the menu selecting screen, press [↩].

[**Adjust**] Displays picture adjustment screen. (☞ page 42)

[**Aspect**] Selects aspect ratio. (☞ page 43)

[**Zoom**] Displays the picture size selecting screen. (☞ page 43)

Using menu selecting screen



[▲] [▼] [◄] [►] Selects an item.

[**Enter**] Confirms the selection.

[**Return**] Returns to the previous menu.

[↩] Exits from the menu selecting screen.

- For DivX only

[◄] [►] Skips back or forward by about 5 minutes.

[**Return**] Returns to the previous screen.

[↩] Exits from the scene selecting screen.

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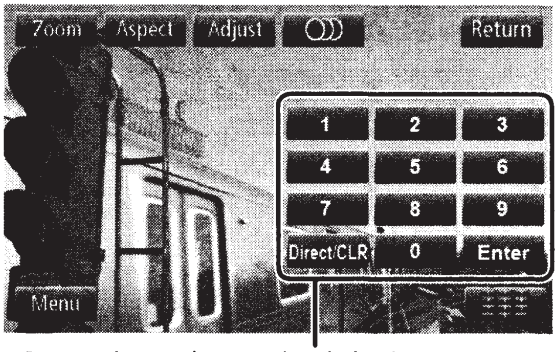
Only for VCD

1

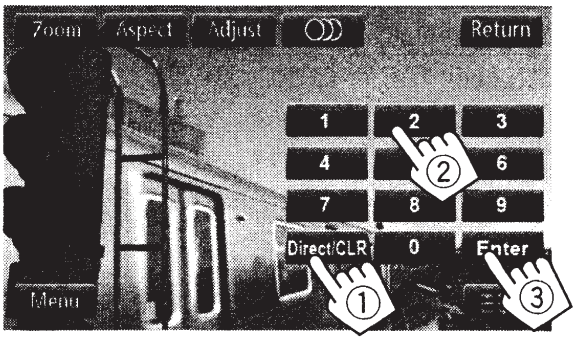
2



Direct selecting buttons (☞ below)

[◯◯◯]	Selects the audio channel (ST: stereo, L: left, R: right).
[**Return**]	Displays the previous screen or the menu.
[**Menu**]	Displays the disc menu.
[**Adjust**]	Displays picture adjustment screen. (☞ page 42)
[**Aspect**]	Selects aspect ratio. (☞ page 43)
[**Zoom**]	Displays the picture size selecting screen. (☞ page 43)
[▦]	Displays/hides the direct selecting buttons. (☞ below)

- To select a track directly



– To switch between chapter/track entry and title/folder entry, press [**Direct/CLR**].
– When you enter a wrong number, press [**Direct/CLR**] to delete the last entry.

- To deactivate the PBC function, press [■] then the direct selecting buttons to select a track number.

Selecting playback mode

For DVD/DVD-VR

Selects Repeat playback mode

For VCD (without PBC)/CD/DivX/MPEG1/MPEG2/MP3/WMA/WAV

Selects Random playback mode*

Selects Repeat playback mode*

* *You cannot activate the repeat mode and the random mode at the same time.*

- Each time you press the button, the playback mode changes. (The corresponding indicator lights up.)
  – Available items differ depending on the types of loaded disc and playback file.

Indicator	Playback mode
CHAPTER	Repeats current chapter.
TITLE	Repeats current title.
PROGRAM	Repeats current program (not available for Playlist playback).
SONGS	Repeats current track.
FOLDER	Repeats all tracks of the current folder.
FOLDER	Randomly plays all tracks of current folder, then tracks of next folders.
DISC	Randomly plays all tracks.

To cancel, press the button repeatedly until the indicator disappears.

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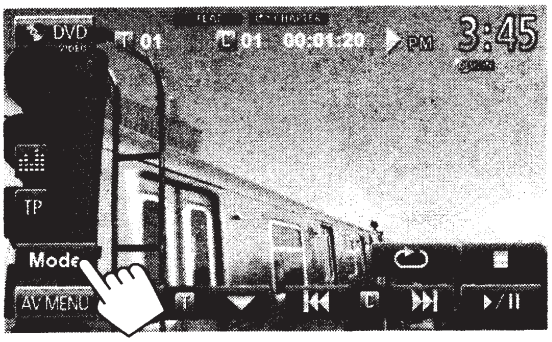
Settings for disc playback



Disc Setup items		Selectable setting/item — Initial: **Underlined**
For DVD/DVD-VR	**Menu Language**	Select the initial disc menu language; Initial **English** (☞ page 58).
	Audio Language	Select the initial audio language; Initial **English** (☞ page 58).
	Subtitle	Select the initial subtitle language or erase the subtitle (**Off**). • Initial for KW-AV50: **Off**, for KW-AV58: **English** (☞ page 58)
	Down Mix	When playing back a multi-channel disc, this setting affects the signals reproduced through the FRONT OUT/REAR OUT jacks. ◆ **Dolby Sur** : Select this to enjoy multi-channel surround audio by connecting an amplifier compatible with Dolby Surround. ◆ **Stereo** : Normally select this.
	D. (Dynamic) Range Compres. (Compression)	You can change the dynamic range while playing Dolby Digital software. ◆ **Off** : Select this to enjoy a powerful sound at a low volume level with its full dynamic range. ◆ **On** : Select this to reduce the dynamic range a little. ◆ **Dialog** : Select this to reproduce the movie dialog more clearly.
For discs except VCD/CD	**Monitor Type**	Select the monitor type to watch a wide screen picture on the external monitor. ◆ **16:9** ◆ **4:3 LB** (Letterbox) ◆ **4:3 PS** (PanScan)
For discs containing audio/video/picture files	**File Type**	Select the playback file type when a disc contains different types of files. ◆ **Audio** : Plays back audio files. ◆ **Still Picture** : Plays back JPEG files. ◆ **Video** : Plays back DivX/MPEG1/MPEG2 files. ◆ **Audio&Video** : Plays back audio files and DivX/MPEG1/MPEG2 files. • For playable file types, ☞ page 19. • If the disc contains no files of the selected type, the existing files are played in the following order: audio, video, then still picture.

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USB operations

Playing a USB device

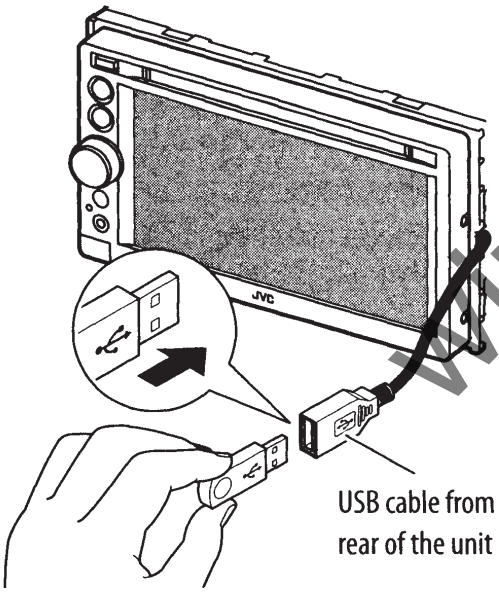
- This unit can play JPEG/MPEG1/MPEG2*/MP3/WMA/WAV files stored in USB mass storage class device.
- This unit can recognize a total of 5 000 files and 250 folders (a maximum of 999 files per folder).
- Make sure all important data has been backed up to avoid losing the data.

* *Except for MPEG2 files recorded by JVC Everio camcorder (extension code <.mod>).*

Connecting a USB device

You can connect a USB mass storage class device such as a USB memory, Digital Audio Player etc. to the unit.

- You cannot connect a computer or portable HDD to the USB cable from the rear of the unit.



USB cable from the rear of the unit

The source changes to "**USB**" and playback starts.

- All tracks in the USB device will be played repeatedly until you change the source.

Cautions:

- This unit may not play back files in a USB device properly when using a USB extension cord.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 1 A.
- This unit may not recognize a memory card inserted into the USB card reader.
- Connect only one USB device to the unit at a time. Do not use a USB hub.
- When connecting with a USB cable, use the USB 2.0 cable.
- The maximum number of characters for (when the characters are 1 byte):
  – Folder names : 50 characters
  – File names : 50 characters
- Avoid using the USB device if it might effect driving safety.
- Do not pull out and attach the USB device repeatedly while "Now Reading" is shown on the screen.
- Electrostatic shock at connecting a USB device may cause abnormal playback of the device. In this case, disconnect the USB device then reset this unit and the USB device.
- Operation and power supply may not work as intended for some USB devices.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damaging to the device.

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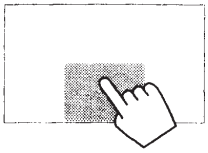
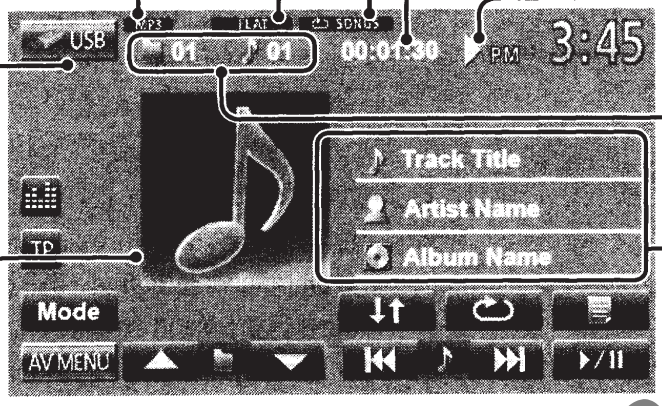
ENGLISH

- When the operation buttons are not displayed on the screen, touch the area shown on the illustration.
- To change settings for video playback, ☞ page 42.





- MP3/WMA/WAV: Folder no./Track no.
- JPEG: Folder no./File no.

Track/file information (for MP3/WMA/WAV)

- Touching an information bar scrolls the text if all the text is not shown.

While playing, "Jacket picture" is shown if the file has the tag data including "Jacket picture."

[↻] Selects repeat mode. *1 *2
- ↻ **SONGS**: Repeats current track.
- ↻ **FOLDER**: Repeats all tracks of the current folder.

[↓↑] Selects random mode. *1 *2
- ↓↑ **FOLDER**: Randomly plays all tracks of the folder.
- ↓↑ **USB**: Randomly plays all tracks.

[▤] Displays folder/track list. (☞ page 21)

[►/❚❚] Starts playback/pauses.

[|◄◄] [►►|] *3
- Selects track. (Press)
- Reverse/forward search.*4 (Hold)

[▲] [▼] Selects folder.

[**Mode**] Changes the settings for file playback. (☞ below)

[**AV MENU**] Displays <**AV Menu**> screen.

- Available items differ depending on the types of playback file.

*1 *To cancel random or repeat mode, press the button repeatedly until the indicator disappears.*

*2 *You cannot activate the repeat mode and the random mode at the same time.*

*3 *Displayed icon varies depending on the file type.*

*4 *Search speed varies depending on the file type.*

Setting <Monitor Type>

Select the monitor type to watch a wide screen picture on the external monitor.

16:9	
4:3 LB (Letterbox)	
4:3 PS (PanScan)	

Setting <File Type>

Audio	Plays back audio files.
Still Picture	Plays back JPEG files.
Video	Plays back MPEG1/MPEG2 files.
Audio&Video	Plays back audio files and MPEG1/MPEG2 files.

- If the USB device contains no files of the selected type, the existing files are played in the following order: audio, video, then still picture.

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Listening to the iPod/iPhone device

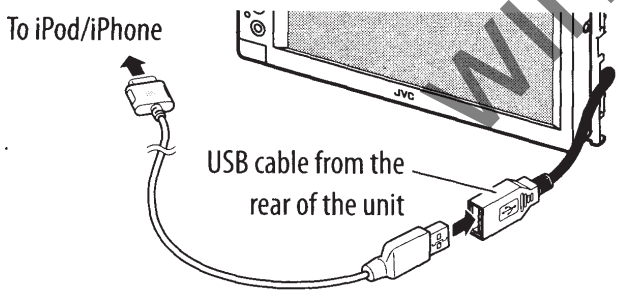
Preparation

iPod/iPhone that can be connected to this unit:
- iPod with video (5th Generation)
- iPod classic
- iPod nano (5th Generation)
- iPod nano (4th Generation)
- iPod nano (3rd Generation)
- iPod nano (2nd Generation)
- iPod nano (1st Generation)
- iPod touch (3rd Generation)
- iPod touch (2nd Generation)
- iPod touch (1st Generation)
- iPhone 4
- iPhone 3G
- iPhone 3GS
- iPhone

Connecting iPod/iPhone

Connect your iPod/iPhone using the appropriate cable according to your purpose.

- Use the following cables:
  - **To listen to the music (digital):** USB 2.0 cable (accessory of the iPod/iPhone)



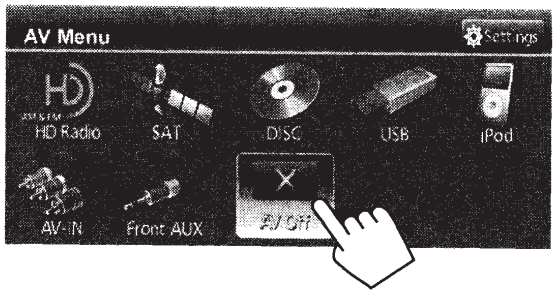
  - **To watch the video and to listen to the music (analog):** USB Audio and Video cable for iPod/iPhone—KS-U30 (separately purchased) (☞ Installation/Connection Manual)

Caution:
Video is not displayed on the screen if connected with any cable other than KS-U30.

Setting <Input> for iPod/iPhone playback

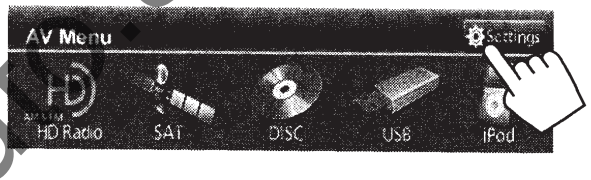
1 Turn off the AV source.

On <**AV Menu**>:

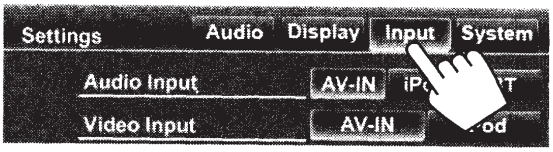


2 Press AV MENU to display the <AV Menu> screen.

3 Display the <Settings> screen.

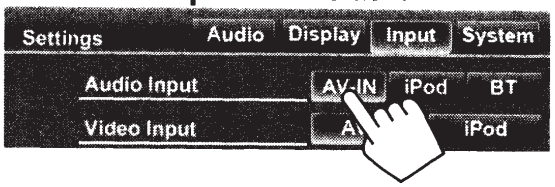


4 Display the <Input> screen.



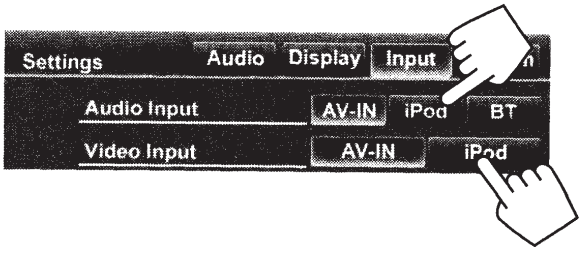
5 To listen to the music

Set <**Audio Input**> to <**AV-IN**>.



To watch the video and to listen to the music

Set <**Audio Input**> and <**Video Input**> to <**iPod**>.



- When KS-BTA100 is also connected, select <**BT**> for <**Audio Input**>. (☞ page 51)

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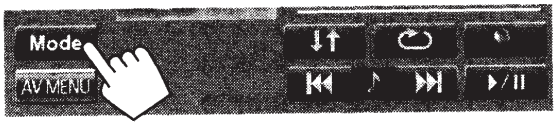
Setting iPod control mode

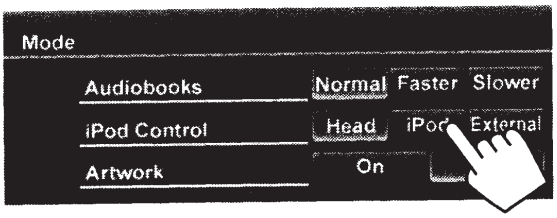
Select the unit controlling iPod/iPhone playback.

When the source is "**iPod**"...

1



2



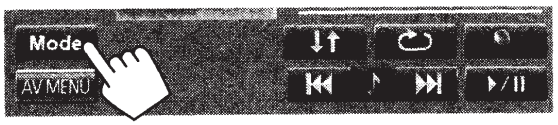
Head	Controls playback from this unit.
iPod	Controls audio/video playback from the iPod/iPhone. • Playback information is shown.
External	Allows any audio/video signals from iPod/iPhone. • No information is shown. • When you turn on the power and play back a video with <**External**> selected, caution message appears. Press [**Accept**] to continue. • Select this to use MotionX-GPS.

- When using iPod nano (1st Generation) or iPod with video (5th Generation) with <**AV-IN**> selected for <**Audio Input**> (☞ page 47), only <**Head**> mode is available. <**iPod**> and <**External**> are not selectable.
- When you use App of the iPod touch or iPhone, see also page 59 for safety instructions.

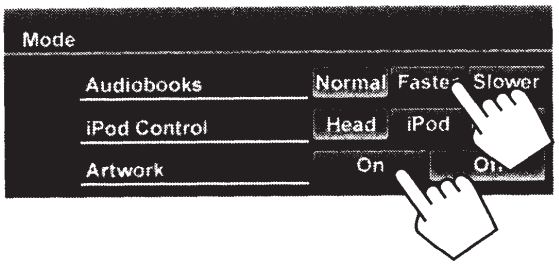
Selecting preference settings for iPod/iPhone playback

When the source is "**iPod**"...

1



2



Audiobooks	Select the speed of audio books.
Artwork	Shows/hides the iPod artwork.

Notice:

When operating an iPod/iPhone, some operations may not be performed correctly or as intended. In this case, visit the following JVC web site: <http://www.jvc.jp/english/car/> (English website only)

For some iPod/iPhone models, the performance may be abnormal or unstable during operation. In this case, disconnect the iPod/iPhone device, then check its condition.
If the performance is not improved or slow, reset your iPod/iPhone.

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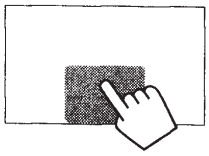
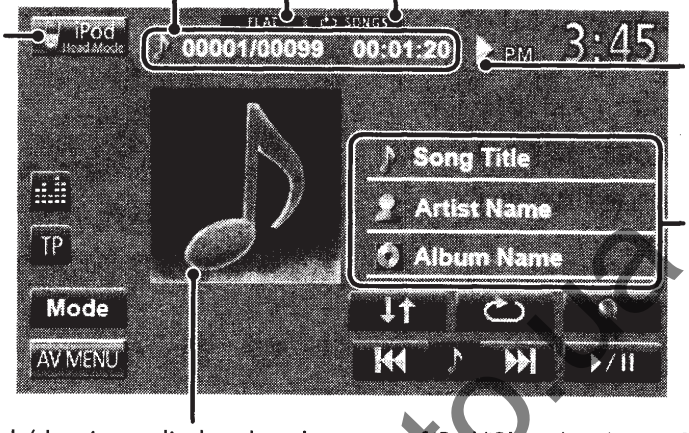
iPod/iPhone playback operations

- When the operation buttons are not displayed on the screen, touch the area shown on the illustration.
- To change settings for video playback, ☞ page 42.



- The operations explained in this manual are under <**Head**> mode (☞ page 28).



While playing, Artwork (the picture displayed on the screen of iPod/iPhone) is shown if the song contains the Artwork.

[↻] Selects Repeat playback mode.*1
- ↻ **SONGS**: Functions the same as "Repeat One."

[↓↑] Selects Random playback mode.*1
- ↓↑ **SONGS**: Functions the same as "Shuffle Songs."
- ↓↑ **ALBUMS**: Functions the same as "Shuffle Albums."

[🔍] Displays the Music/Video menu on the iPod/iPhone. (☞ page 30)

[►/❚❚] Starts playback/pauses.

[|◄◄] [►►|] ♪
- Selects a track/video. *2 (Press)
- Reverse/forward search. (Hold)

[**Mode**] Changes the settings for iPod playback. (☞ page 28)

[**AV MENU**] Displays <**AV Menu**> screen.

- To watch the video, select an item on the list of the Video menu. (☞ page 30)

*1 *To cancel random or repeat mode, press the button repeatedly until the indicator disappears.*

*2 *You cannot resume playback for video sources.*

- When you turn on this unit, the iPod/iPhone is charged through the unit.
  – iPhone 4 can be charged only when connected through KS-U30.
- The text information may not be displayed correctly.

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Selecting a track/video from menu on the iPod/iPhone

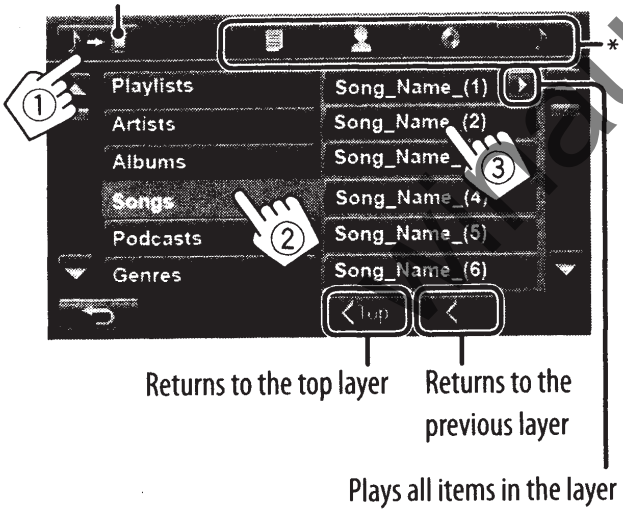
1

2 Select the menu (Music or Video) (①), a category (②), then a desired item (③).

- Select the item in the selected layer until a desired track starts playing.

Music menu:

Switches between Music (♪→🎞) and Video (♪←🎞)



Video menu:

Switches between Music (♪→🎞) and Video (♪←🎞)

- Available categories differ depending on the type of your iPod/iPhone.

* *You can switch to the top of the category by pressing the corresponding tab: Playlist (■), Artist (👤), Albums (💿) or Songs(♪).*

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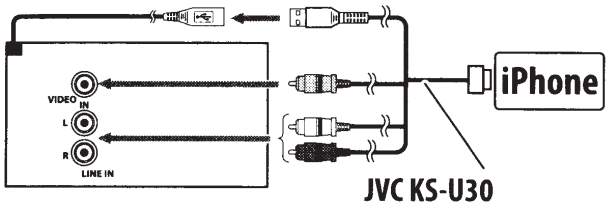
Using iPhone Navigation App (MotionX-GPS Drive)

Connecting iPhone

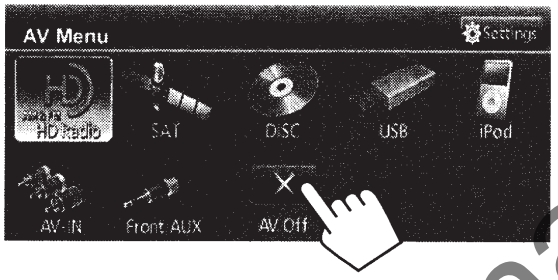


- See also Installation/Connection Manual.
- MotionX-GPS cannot be used if connected with any cable other than KS-U30.

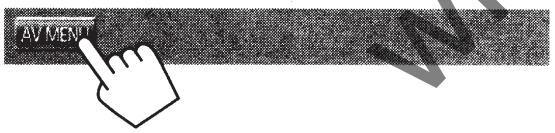
Changing the settings for using MotionX-GPS Drive

1 Turn off the AV source.

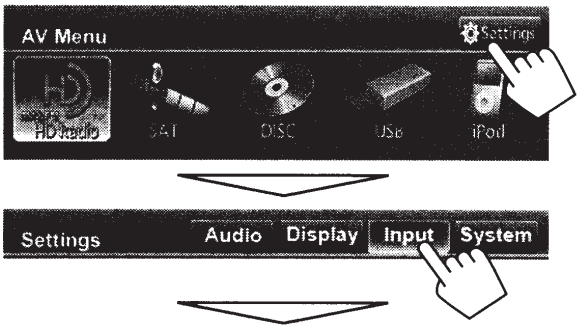
On <**AV Menu**>:



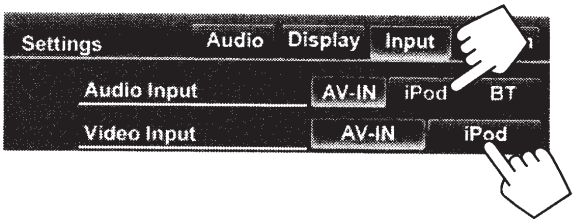
2 Display the <AV Menu> screen.



3 Set <Input> on the unit.

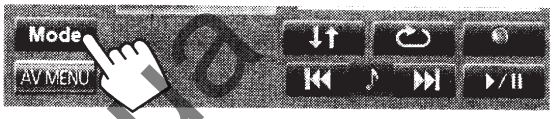


Set <**Audio Input**> and <**Video Input**> to <**iPod**>.

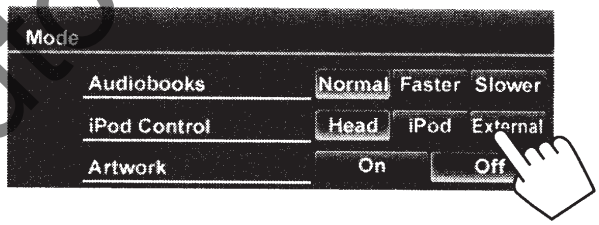


4 Display "iPod" source control screen.

5 Display the <Mode> screen.



6 Set <iPod Control> to <External>.



7 Start MotionX-GPS Drive from your iPhone.

8 Select "iPod" as the source. (☞ page 13)

The map displayed on the connected iPhone appears on the unit's display.

- MotionX-GPS Drive cannot be operated on the unit. Use iPhone to operate it.

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Using other external components

ENGLISH

AV-IN

You can connect an external component to the LINE IN/VIDEO IN jacks. (☞ Installation/Connection Manual)

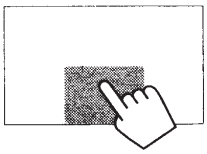
Preparation:

- To listen to the music from the connected component, select <**AV-IN**> for <**Audio Input**> setting. (☞ page 47)
- To watch the video from the connected component, select <**AV-IN**> for <**Video Input**> setting. (☞ page 47)

1 Select "AV-IN" as the source. (☞ page 13)

2 Turn on the connected component and start playing the source.

- When the operation buttons are not displayed on the screen, touch the area shown on the illustration.
- To change settings for video playback, ☞ page 42.



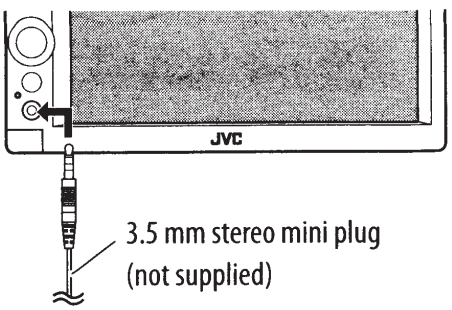
[**Mode**]* Changes the AV-IN name.
- Press [◄] or [►] to select an AV-IN name.

[**AV MENU**] Displays <**AV Menu**> screen.

* *Appears when "**AV-IN**" is selected as the source.*

Front AUX

1 Connect an external component.



2 Select "Front AUX" as the source. (☞ page 13)

3 Turn on the connected component and start playing the source.

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Интернет-магазин автозвука и автотоваров Винавто

Listening to the satellite radio (Only for KW-AV50)

Before operating, connect either one of the following (not supplied) to the expansion port on the rear of the unit.

To listen to the SIRIUS Satellite radio	SCC1 and KS-SRA100
	D&P, SCVDOC1 and KS-SRA100
To listen to the XM Satellite radio	JVC Smart Digital Adapter–XMDJVC100.
	CNP2000UCA and CNPJVC1

Activating subscription

For SIRIUS Radio

1 **Select "SAT" as the source.** (☞ page 13)
The SIRIUS Satellite radio starts updating all the SIRIUS channels. (See "Channel Updates—SIRIUS/XM" below.)
- Once completed, SIRIUS Satellite radio tunes in to the Preview Channel.

2 **Press [Mode] to display SIRIUS ID.**

3 **Contact SIRIUS on the internet at <http://activate.siriusradio.com/> to activate your subscription, or you can call SIRIUS toll-free at 1-888-539-SIRIUS (7474).**
"Subscription updated Press any key to continue" appears on the screen once subscription has been completed.

For XM Radio

1 **Select "SAT" as the source.** (☞ page 13)
XM Tuner* starts updating all the XM channels. "Channel 1" is tuned in automatically.
(See "Channel Updates—SIRIUS/XM" below.)

2 **Check your XM Satellite Radio ID labelled on the casing of the XM Tuner, or tune in to "Channel 0."**
The 8-digit (alphanumeric) ID number is displayed on the screen.
To cancel the ID number display, select any channel other than "0."

3 **Contact XM Satellite radio on the internet at <www.xmradio.com> and click on "Activate Radio," or you can call 1-800-XM-RADIO (1-800-967-2346).**
Once activated, the unit can then be tuned to one of the available channels.

* *XM Tuner: XMDirect™ Tuner Box or XMDirect2 Tuner System*

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Channel Updates—SIRIUS/XM

- If channels are updated after subscription, updating starts automatically, and no sound can be heard:
  – For SIRIUS Satellite radio: "UPDATING" appears.
  – For XM Satellite radio: "UPDATING" (when XMDJVC100 is connected) or "UNAUTH" (when CNP2000UCA and CNPJVC1 are connected) appears.
- Update takes a few minutes to complete.
- Do not press any buttons or perform any operations until updating is completed.

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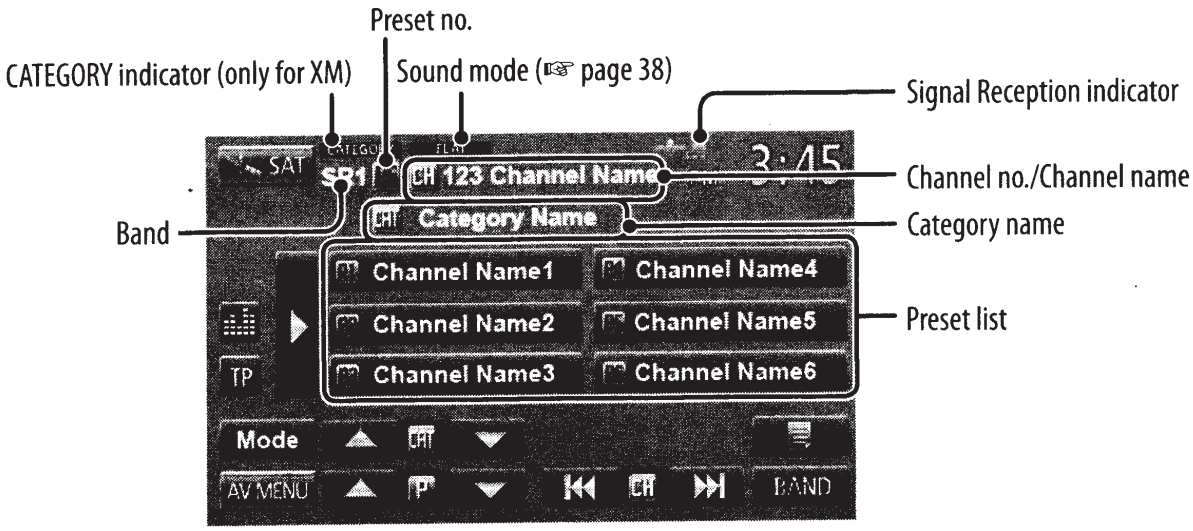
Tuning in to a channel you want

ENGLISH



[BAND] Selects the band.
For SIRIUS: SR1 → SR2 → SR3
For XM: XM1 → XM2 → XM3

[|◄◄] CH [►►|]
- Selects a channel. (Press)
- Changes the channel rapidly. (Hold)
  - While searching, invalid and unsubscribed channels are skipped.

[▲] P [▼] Selects a preset channel.

[▲] CAT [▼] Selects a category.*

[■] Displays the Category/Channel List. (☞ page 35)

[►] Displays/hides the information of the current station. (☞ page 35)

[Mode] Only for SIRIUS: Shows the SIRIUS ID.

[AV MENU] Displays <**AV Menu**> screen.

* *For SIRIUS Radio:*
- *To select a channel from all categories, select* <**ALL**>.

For XM Radio:
- *To select a channel from all categories (including non-categorized channels), press [▲ CAT] or [CAT ▼].*
- *If you do not select a channel within 15 seconds, the category selected is canceled. (The CATEGORY indicator goes off.) You can select a channel from all categories now.*

- To learn more about SIRIUS/XM programming or to become a subscriber, please visit <www.siriusxm.com>.

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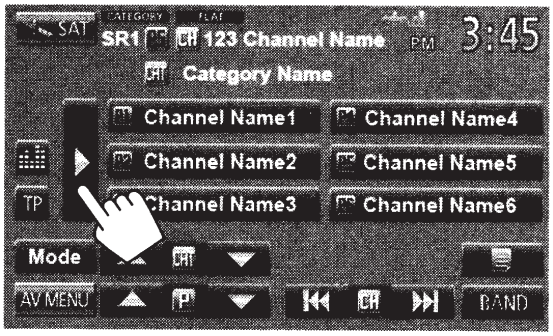
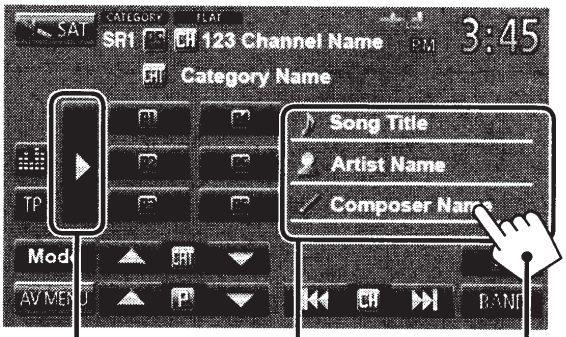
Displaying the information of the current station





Hides the text information

Text information

Scrolls the text information

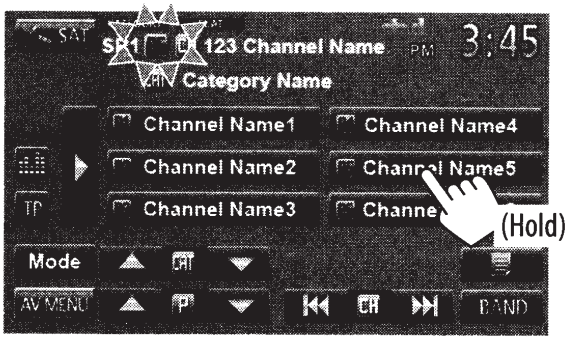
Storing channels in memory

You can preset six channels for each band.

1 Tune in to a station you want to preset.

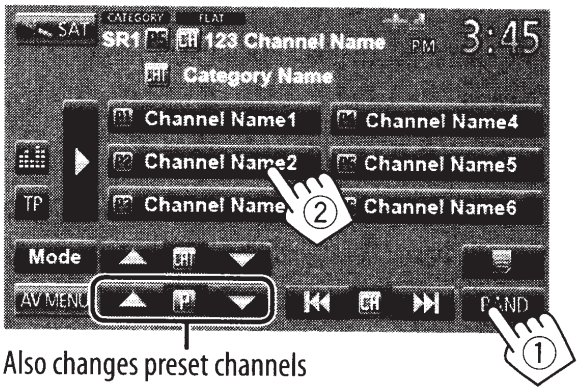
(☞ page 34)

2 Select a preset number.



The channel selected in step **1** is stored.

Selecting a preset channels



Also changes preset channels

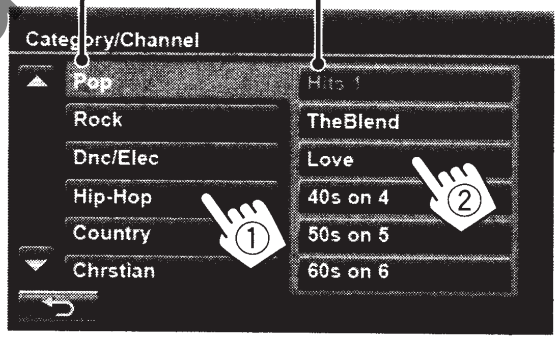
Selecting a channel on the list

1

2 Select a category (①), then a channel (②) from the selected category.

Current category

Current channel



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Интернет-магазин автозвука и автотоваров Винавто

Listening to the HD Radio™ broadcast (Only for KW-AV50)

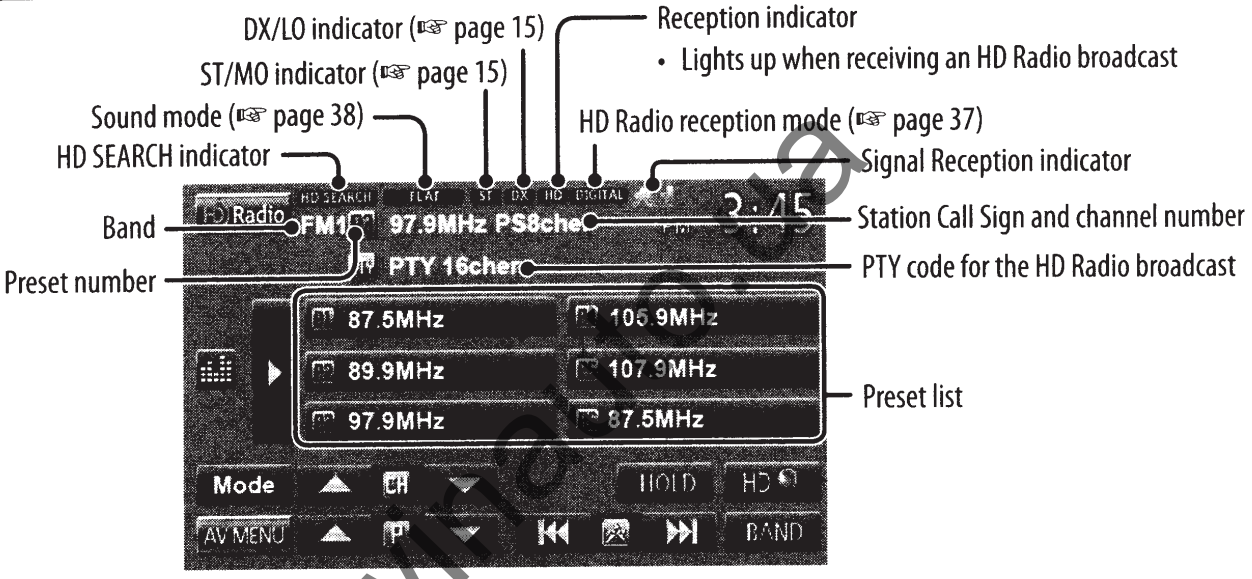
ENGLISH

Before operating, connect HD Radio tuner box, KT-HD300 (separately purchased) to the expansion port on the rear of the unit.

What is HD Radio Technology?

HD Radio Technology can deliver high-quality digital sound—AM digital will have FM-like quality (in stereo) and FM digital will have CD-like quality—with static-free and clear reception. Furthermore, stations can offer text and data, such as artist names and song titles.

- When the HD Radio tuner box is connected, it can also receive conventional analog broadcasts.
- Many HD Radio stations also offer more than one channel of programming. This service is called multicasting.
- To find HD Radio stations in your area, visit www.hdradio.com <http://www.hdradio.com/>.

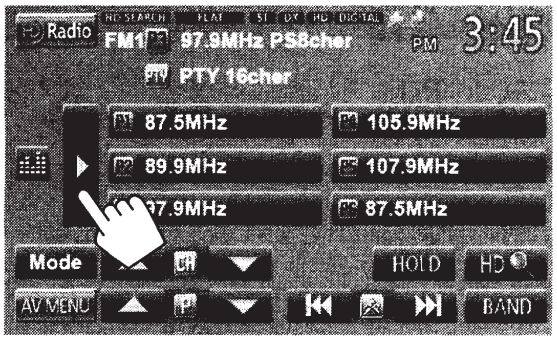


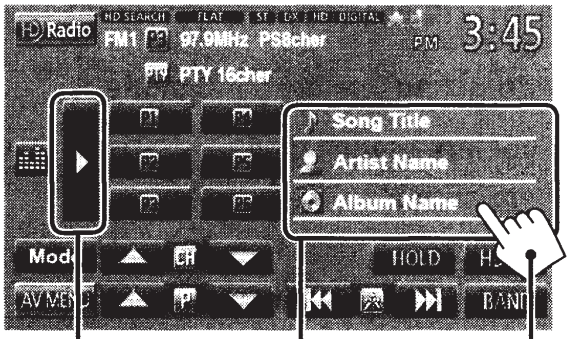
[BAND]	Selects the band. FM1→FM2→FM3→AM	[▲] P [▼]	Selects a preset station.
[◄◄] [►►]	Searches for a station. • Auto search (Press) • Manual search (Hold)	[►]	Displays/hides the information of the current station. (☞ page 37)
[▲] CH [▼]	Selects a sub-channel when receiving an HD Radio multicast channel. • "LINKING" appears while linking to a multicast channel.	[HD 🔍]	Enables to searches for HD Radio stations only. (☞ page 37)
		[HOLD]	Changes the HD Radio reception mode. (☞ page 37)
		[Mode]	Displays the tuner setting screen. (☞ pages 15 – 16)
		[AV MENU]	Displays <**AV Menu**> screen.

- **To improve FM reception,** see "When an FM stereo broadcast is hard to receive...," ☞ page 15.
- **To search for FM stations with strong signals,** see "To tune in FM stations only with strong signals—LO/DX (Local/Distance-extreme)," ☞ page 15.
- **To reduce interference noises,** see "When the FM reception is interfered...," ☞ page 15.
- **To preset stations automatically,** see "Automatic presetting—SSM (Strong-station Sequential Memory) (For FM only)", ☞ page 16. For HD Radio, SSM is also available while receiving an AM station.

Интернет-магазин автозвука и автотоваров Винавто

Displaying the information of the current channel





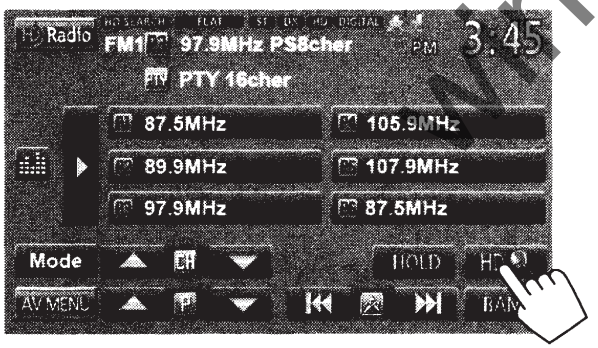
Hides the text information

Text information

Scrolls the text information

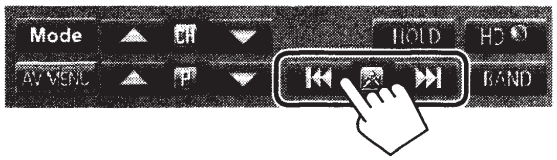
Searching for HD Radio stations only

1



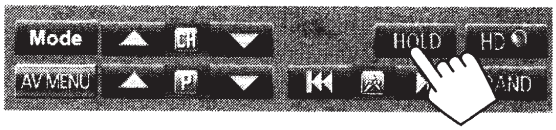
The HD SEARCH indicator appears.

2 Search for a station—Auto Search.



Changing HD Radio reception mode

While receiving an HD Radio broadcast, the unit tunes to digital or analog audio automatically due to the receiving condition.



ANALOG	Tuning to analog audio only.
DIGITAL	Tuning to digital audio only.
AUTO	Switch between digital and analog audio automatically. • In the case when the radio station forces the reception mode to digital, the DIGITAL indicator flashes.

- The setting automatically changes to <**AUTO**> in the following cases:
  - When you tune in to another broadcast.
  - When you change to another source.
  - When you turn off the power.

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Sound adjustment

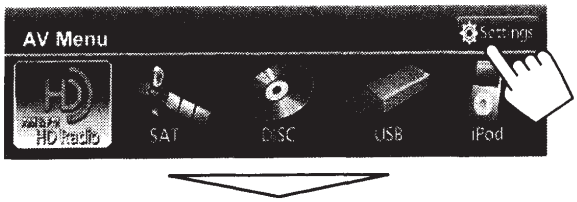
ENGLISH

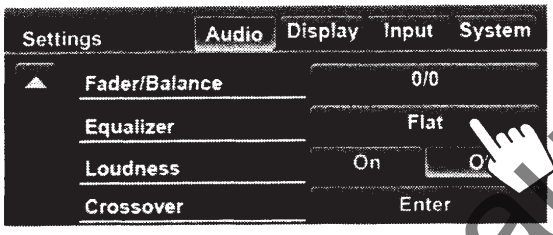
Using the sound equalization

- The adjustment is memorized for each source until you adjust sound again. If the source is a disc, the adjustment is stored for each of the following categories.
  - DVD/DVD-VR
  - VCD/CD
  - DivX/MPEG1/MPEG2/MP3/WMA/WAV
- You cannot adjust the sound when the AV source is turned off.

Selecting a preset sound mode

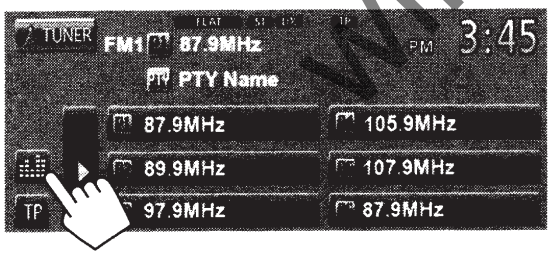
1 On <**AV Menu**>:



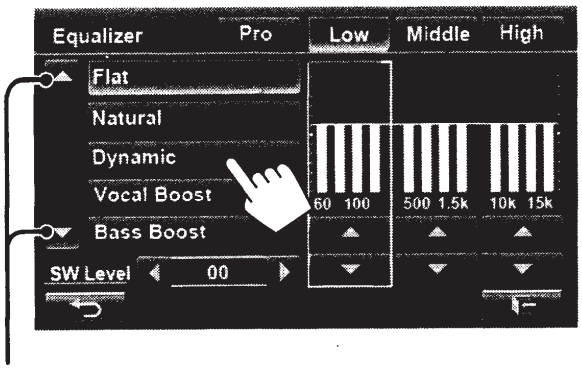


or

On the source control screen:



2 **Select a sound mode.**



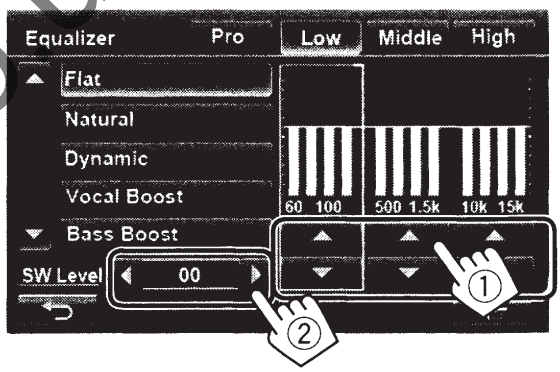
Changes the page

Storing your own adjustment

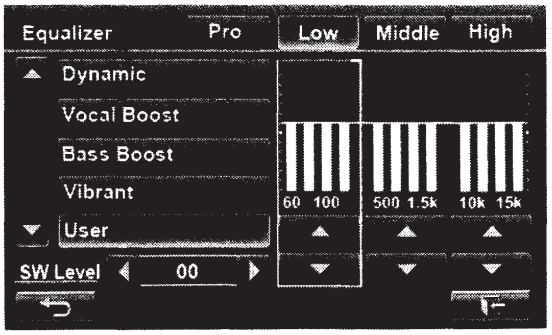
Customizing preset sound mode

1 **Select a sound mode.** (☞ "Selecting a preset sound mode")

2 **Adjust the level of each band (①), then select the subwoofer level (②).**



The adjustments are stored and <**User**> is activated.



- To finish the procedure, press [ ].
- To make precise adjustments, ☞ page 39.

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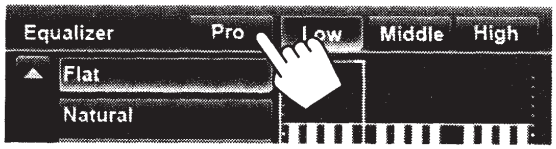
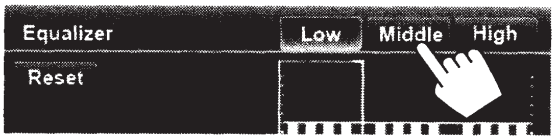
Adjusting the sound precisely

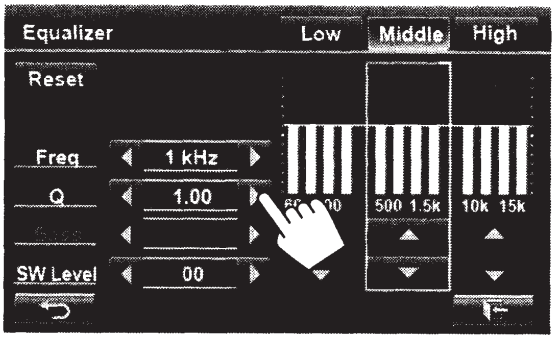
1 Perform steps 1 and 2 of "Selecting a preset sound mode," then...



2 Select a band.



3 Adjust the sound.



Reset	Changes level of Low/Mid/ High to 0.
Freq	Selects frequency.
Q	Adjusts the width of the frequency.*1
Bass	Activates/deactivates bass.*2
SW Level	Adjusts subwoofer level.

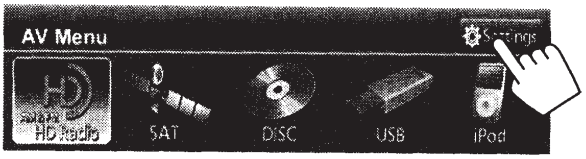
The adjustments are overwritten if <**User**> is set on previous page, and <**User**> is activated.

- The adjustments are memorized until you adjust sound again.
- To make adjustment for other bands, repeat steps **2** and **3**.

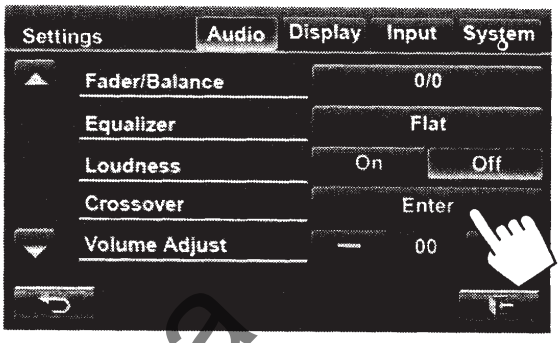
*1 *Fixed for "High" band.*
*2 *Only for "Low" band.*

Adjusting the cross over frequency

1 On <**AV Menu**>:

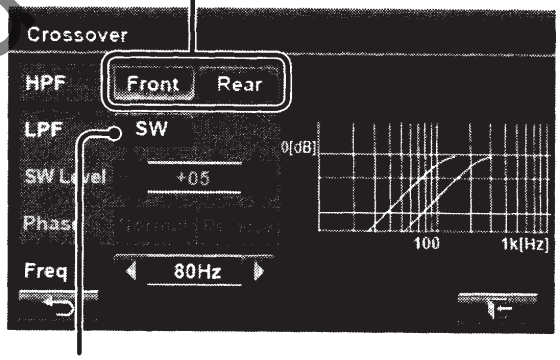


2

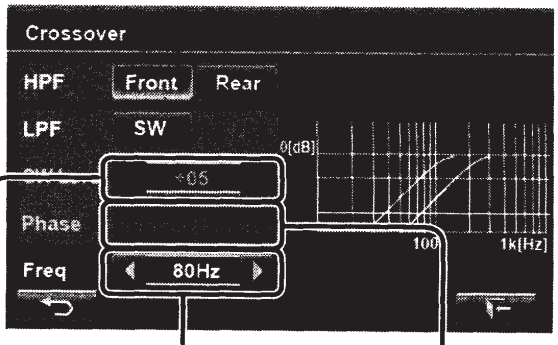


3 Select the item to adjust, then make adjustment.

Adjusts the cross over for front or rear speakers (high pass filter).



Adjusts the cross over for subwoofer (low pass filter).



Adjusts the cross over frequency.

Selects the phase for the subwoofer.*

Adjusts the subwoofer level.

* *Not selectable when* <**Freq**> *is set to* <**Through**>.

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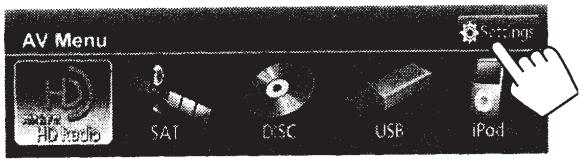
Changing display design

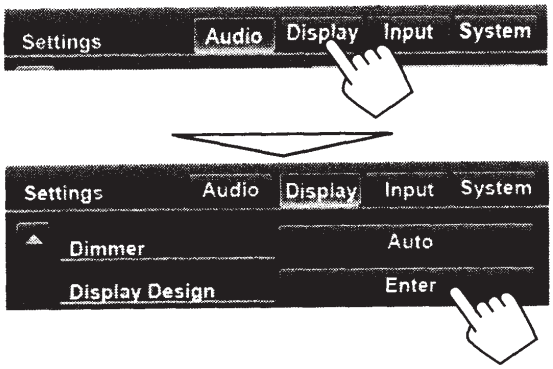
ENGLISH

You can change the background, the color of text, touch panel buttons, and monitor panel buttons.

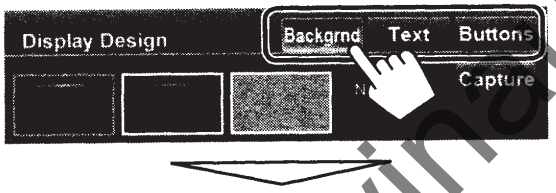
1 On <**AV Menu**>:



2



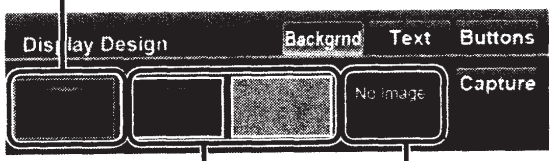
3 Select an item (<Backgrnd>, <Text> or <Buttons>), then change the setting.



Background

① Select a background

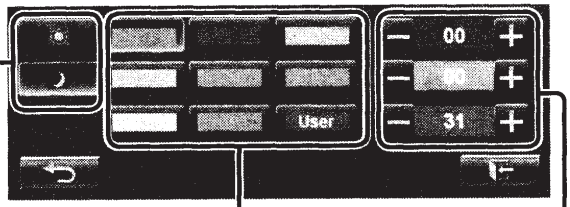
Basic image (default)



You can select a color on the color palette or adjust the color on the user color adjuster (☞ the right column)

For setting your favorite scene as the background, ☞ page 41

② Select/adjust the color



Color palette

Dimmer setting: You can make selections for each dimmer setting—<☾> (On) or <☼> (Off)

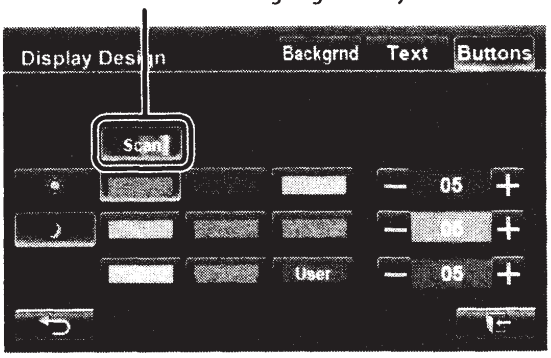
User color adjuster: You can make your own color adjustment stored in <**User**>

Text/Buttons

For setting the color, ☞ above.

Variable color illumination*

- Illumination color changes gradually.



* *Appears only for button color selection screen. When variable color illumination is selected, you cannot adjust the color.*

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Using your favorite scene as the background

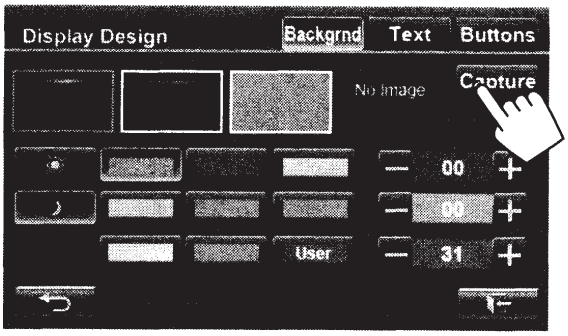
While playing a video or JPEG, you can capture an image and use the captured image as a background.

- You cannot capture copyrighted content and image from iPod/iPhone.
- When using JPEG file as the background, make sure that the resolution is 800 x 600 pixels.
- The color of the captured image may look different from that of the actual scene.

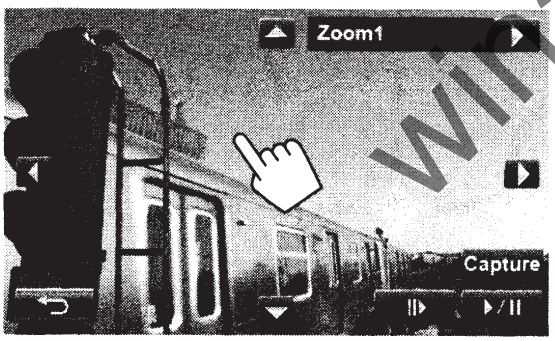
1 Play back a video or JPEG.

2 Display <Display Design>. (☞ page 40)

3



4 Adjust the image.



[►/❚❚]* Starts playback/pauses.

[❚❚►]* Advances scenes frame-by-frame.

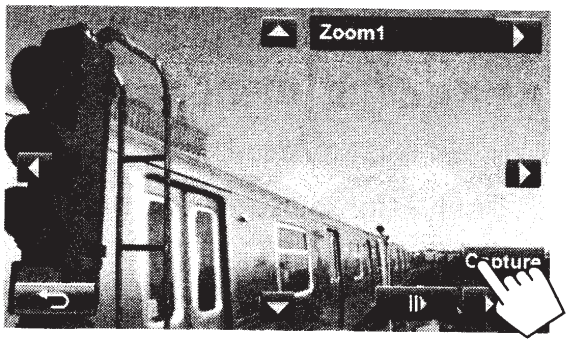
[►] Magnifies the scene. (<**Zoom1**> – <**Zoom3**>)

[▲] [▼] [◄] [►] Moves the zooming frame.

- To cancel the capture screen, press [↩].

* *Not displayed when playing an external component connected to LINE IN/VIDEO IN jacks.*

5 Capture the image displayed on the screen.



Confirmation message appears. Press [**Yes**] to store the newly captured image. (The existing image is replaced with the new one.)

- Press [**No**] to return to the previous screen.

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Интернет-магазин автозвука и автотоваров Винавто

Setting for video playback

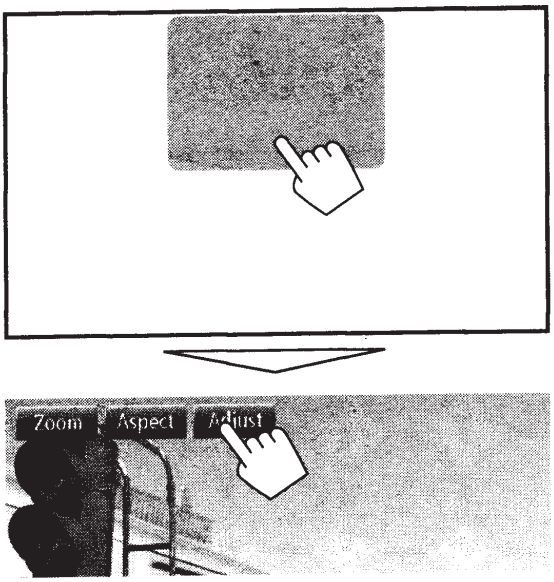
ENGLISH

You can change the setting for video playback.

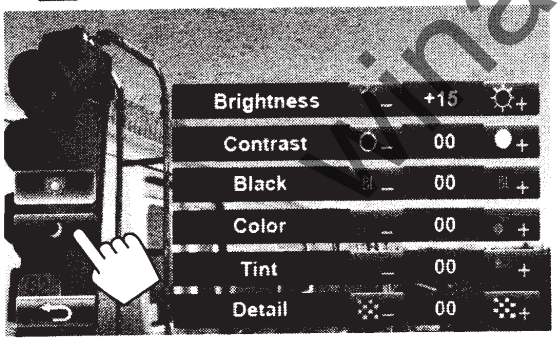
Picture adjustment

You can adjust the picture quality.

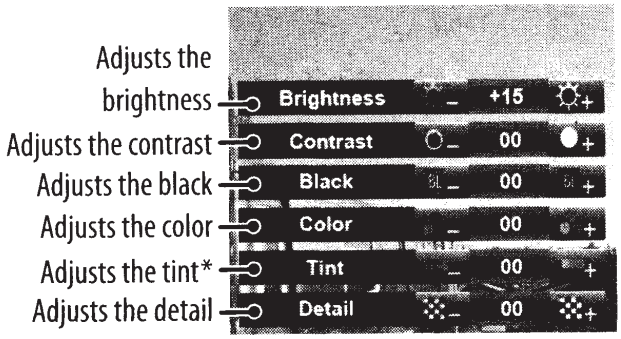
1 Display the adjustment menu.



2 Select Dimmer On (<☽>) or Off (<☼>).



3 Adjust the picture (–15 to +15).



* *Adjustable only when the incoming signal is NTSC.*

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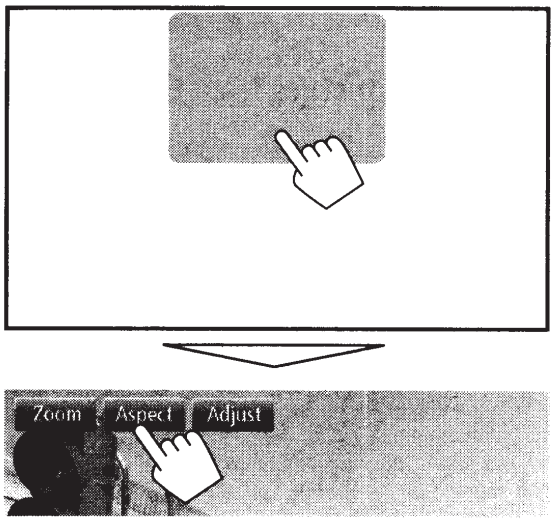
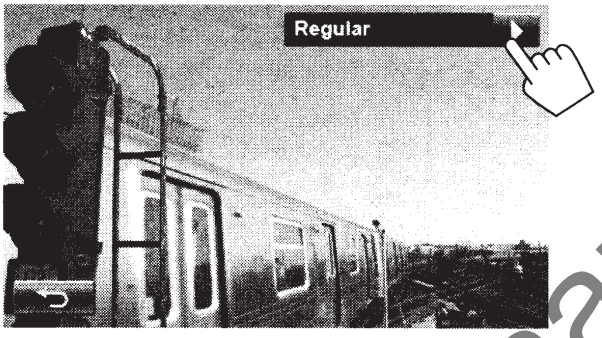
Changing the aspect ratio

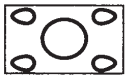
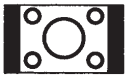
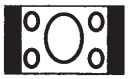
You can change the aspect ratio for video playback.

1



2



	4:3 signal	16:9 signal
Full*: For 16:9 original pictures		
Panorama: For viewing 4:3 pictures naturally on the wide screen		
Regular*: For 4:3 original pictures		
Auto:	• For "**DISC**"/"**USB**" only: Aspect ratio is automatically selected to match to the incoming signals.	

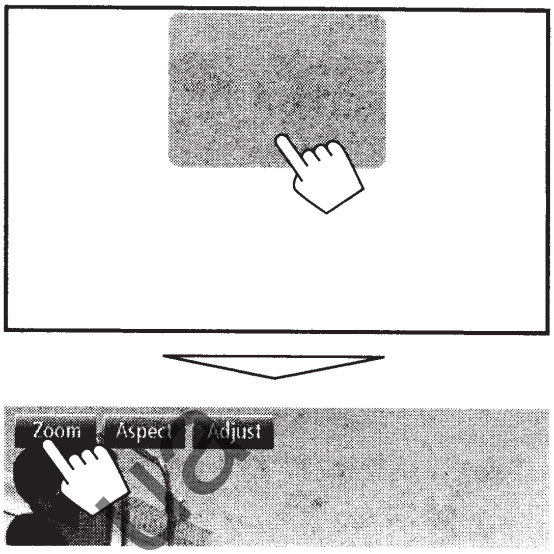
* *While DivX is played back with <**Monitor Type**> set to <**16:9**> (☞ page 24), the aspect ratio is not set correctly.*

Zooming picture

You can zoom the picture (<**Zoom1**> to <**Zoom3**>).

- When <**Aspect**> is set to <**Panorama**> or <**Auto**> (☞ left column), the picture is zoomed with the aspect ratio of the <**Full**> setting.

1



2

[▲] [▼] [◄] [►] : Moves the zooming frame.

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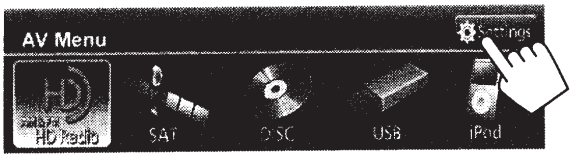
Using a rear view camera

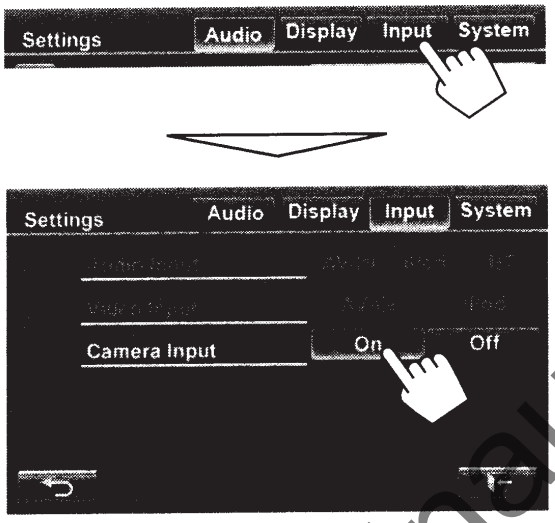
- To use a rear view camera, the REVERSE GEAR SIGNAL lead connection is required. For connecting a rear view camera, see the Installation/Connection Manual.

Activating the rear view camera

1 On <**AV Menu**>:



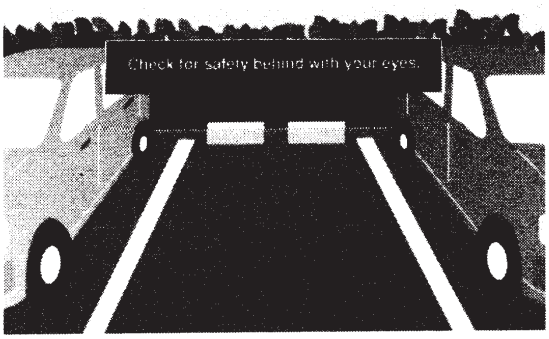
2



To deactivate, select <**Off**>.

Displaying the picture from the rear view camera

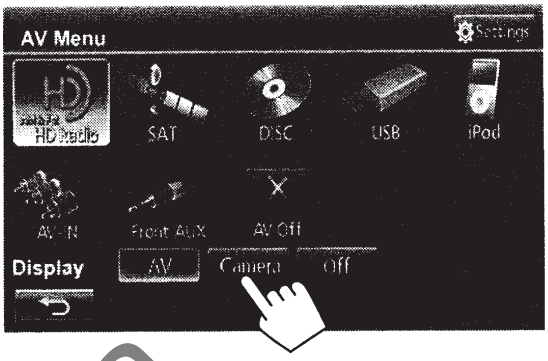
The rear view screen is displayed when you shift the gear to the reverse (R) position.

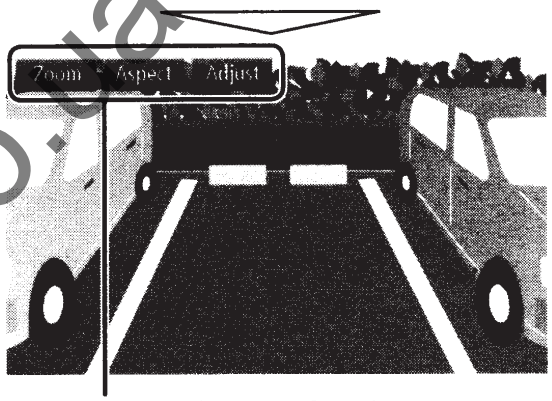


- For KW-AV50: To erase the caution message, touch the screen.

To display the picture from the rear view camera manually

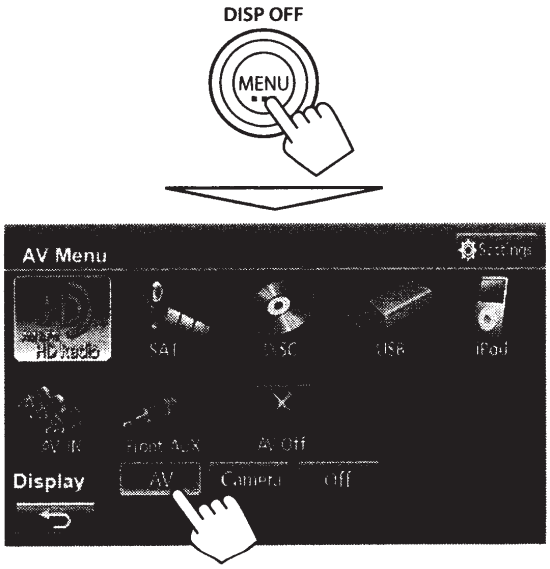
On <**AV Menu**>:





When displaying the picture from the rear view camera manually, you can change the setting of the picture. (☞ page 42)

To cancel the rear view screen



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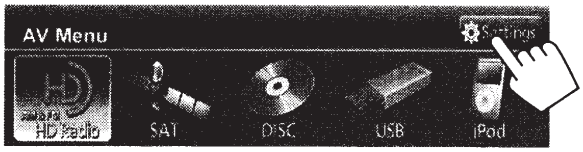
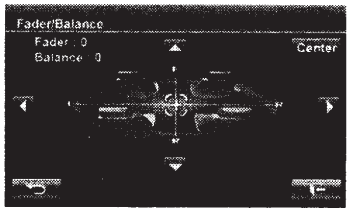
Интернет-магазин автозвука и автотоваров Винавто

Setting menu items



- You cannot change <**Audio**> settings (except <**Amplifier Gain**>) when the AV source is turned off.

Menu item		Selectable setting/item — Initial: **Underlined**
Audio	**Fader/Balance** 	**Fader** : Adjust the front and rear speaker output balance. ◆ **F6** to **R6**; Initial **0** • When using a two-speaker system, set the fader to the center (**0**). **Balance** : Adjust the left and right speaker output balance. ◆ **L6** to **R6**; Initial **0** Press [▲/▼/◄/►] or drag [⊕] to adjust. • To clear the adjustment, press [**Center**].
	Equalizer	Change the sound mode or adjust and store the equalization for each source. (☞ page 38) ◆ **Flat/Natural/Dynamic/Vocal Boost/Bass Boost/Vibrant/User**
	Loudness	You can activate/deactivate the loudness function. ◆ **Off** : Cancels. ◆ **On** : Boost low and high frequencies to produce a well-balanced sound at a low volume level.
	Crossover	Adjust the cross over frequency. (☞ page 39)
	Volume Adjust	Adjust and store the auto-adjustment volume level for each source. (For discs, the adjustment is stored for each of the following categories: DVD/DVD-VR, VCD/CD, and DivX/MPEG1/MPEG2/MP3/WMA/WAV.) The volume level will automatically increase or decrease when you change the source. ◆ **−15** to **+06**; Initial **00**
	Amplifier Gain*	You can change the maximum volume level of this unit. ◆ **High** : VOL 00 to 50 ◆ **Low** : VOL 00 to 30 (Select this if the peak power of the speakers is less than 50 W.) ◆ **Off** : Deactivates the built-in amplifier. • If you change this setting from <**High**>/<**Off**> to <**Low**> while the volume level is set higher than the maximum level of <**Low**>, the unit automatically lowers the volume level to "VOL 30".

* *To change these settings, turn off the AV source by pressing [**AV Off**] on <**AV Menu**> beforehand.*

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Menu item		Selectable setting/item — Initial: **Underlined**
Audio	**Speaker Select**	Select the size of the connected speaker. ◆ **Standard**/**Narrow**/**Middle**/**Wide**
Display	**Dimmer**	◆ **Auto** : Dims the screen and button illumination when you turn on the headlights. • The ILLUMINATION CONTROL lead connection is required. (☞ the Installation/Connection Manual) ◆ **On** : Activates dimmer. ◆ **Off** : Cancels. ◆ **Dimmer Time Set** : Sets the Dimmer On (■)/Off (■) times. • Press [▲] or [▼] to set the time.
	Display Design	Change the display design (background, the color of text, touch panel buttons, and monitor panel buttons). (☞ page 40)
	OSD Clock	◆ **On** : Displays the clock while video source is played back. ◆ **Off** : Cancels.
	Demonstration	◆ **On** : Activates the demonstration on the screen. ◆ **Off** : Cancels. (☞ page 8)
	Scroll	◆ **Auto** : Repeats scrolling. ◆ **Once** : Scrolls the displayed information once. ◆ **Off** : Cancels. • Touching an information bar scrolls the text regardless of this setting.
	GUI Adjust	Adjust the brightness and black color of the screen. Select Dimmer On (■)/Off (■), then change the following settings: ◆ ☼–/☼+ : Adjusts brightness (**–15** to **+15**; Initial **00** for Dimmer On/**+15** for Dimmer Off). ◆ **BL–/BL+** : Adjusts black (**–15** to **+15**; Initial **00**).
	NTSC/PAL	Select the color system of the external monitor. ◆ **NTSC**, **PAL**

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Menu item		Selectable setting/item		Initial: **Underlined**
Input	**Audio Input***	◆ **AV-IN**	:	Select to listen to the music from one of the followings: – An audio component such as a portable audio player connected to LINE IN jacks – iPod/iPhone connected using USB 2.0 cable (accessory of the iPod/iPhone)
		◆ **iPod**	:	Select when connecting the iPod/iPhone using JVC KS-U30. (☞ page 27)
		◆ **BT**	:	Select when playing back the Bluetooth audio player using the Bluetooth adapter (KS-BTA100: separately purchased, ☞ page 51).
	Video Input*	◆ **AV-IN**	:	Select to watch the video from an AV component such as a camcorder connected to VIDEO IN jack. • When you watch a video of an AV component, select <**AV-IN**> for both <**Audio Input**> and <**Video Input**>.
		◆ **iPod**	:	Select to watch the video and listen to the music from the iPod/iPhone connected using JVC KS-U30. (☞ page 27)
	Camera Input	◆ **On**	:	Displays the picture from rear view camera when you shift the gear to the reverse (R) position.
		◆ **Off**	:	Cancels.

* *To change these settings, turn off the AV source by pressing [**AV Off**] on <**AV Menu**> beforehand.*

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Интернет-магазин автозвука и автотоваров Винавто

Menu item		Selectable setting/item — Initial: **Underlined**
System	**Text Language**	Select the text language used for on-screen information. ◆ **English**/Spanish/French/German/Italian/Dutch/Swedish/Danish/Russian/Portuguese • "Please Detach Front Panel" appears when the setting is changed. Detach the monitor panel then attach it to enable the change.
	GUI Language	You can change the language displayed for operation buttons and menu items when selecting any language other than <**English**> for <**Text Language**>. ◆ **English** : English is used for the display of operation buttons and menu items. ◆ **Local** : The language selected for <**Text Language**> is used for the display of operation buttons and menu items.
	Time Set	Adjust the clock time. (☞ page 8)
	Beep	Change the volume of the key-touch tone. ◆ **On** : Activates the key-touch tone. ◆ **Off** : Cancels.
	User Profile	You can memorize, recall, or clear the settings you have made. (☞ page 49)
	Initialize	Initialize all settings you have made. Hold [**Enter**] to initialize the settings. • When restoring the settings, adjust the settings on the <**Initial Settings**> screen. (☞ page 7)
	Serial Number	Displays the serial number.
	Touch Panel Adjust	Adjust the touch position of the buttons on the screen. (☞ page 50)
	DivX(R) VOD Only for KW-AV50	This unit has its own Registration Code. Once you have played back a file with which the Registration Code recorded, this unit's Registration Code is overwritten for copyright protection. • Press [**Enter**] to display the information. • To return to the previous screen, press [**OK**].

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Интернет-магазин автозвука и автотоваров Винавто

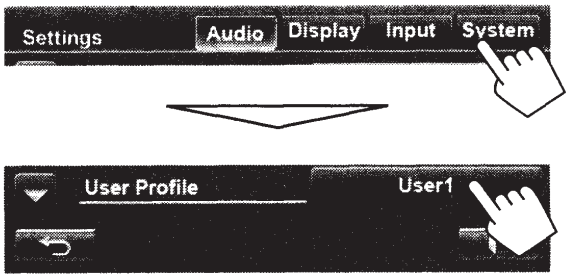
Memorizing/recalling the settings

You can memorize the following settings:

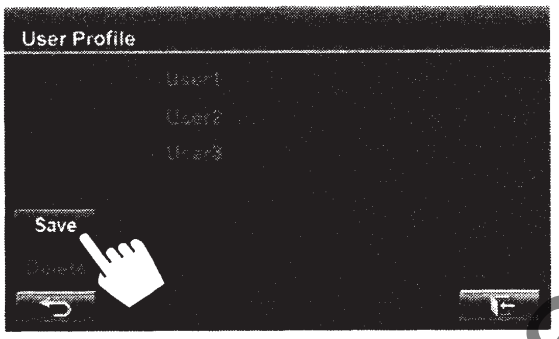
Fader/Balance, Equalizer, Loudness, Volume Adjust, Amplifier Gain, Speaker Select, Dimmer, Display Design, Audio Input, Video Input, Camera Input

Memorizing your settings

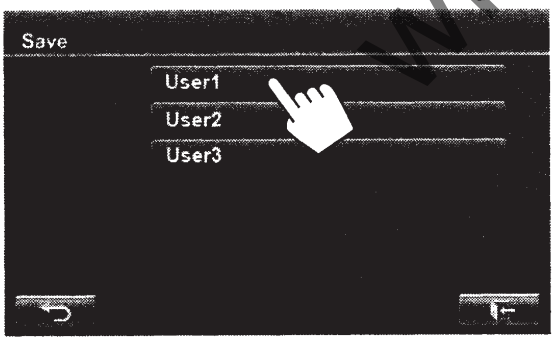
1 On <**Settings**>:



2



3 Select an item (<User1>, <User2> or <User3>) to memorize the settings.

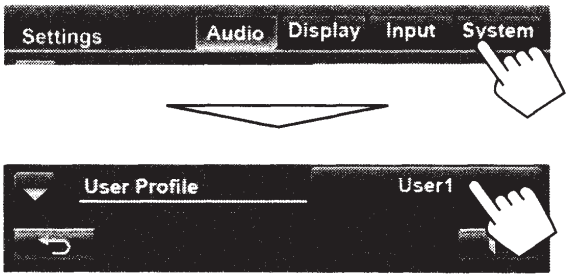


A confirmation message appears. Press [**Yes**].

4 Finish the procedure.

Recalling your settings

1 On <**Settings**>:



2

A confirmation message appears. Press [**Yes**].

3 Finish the procedure.

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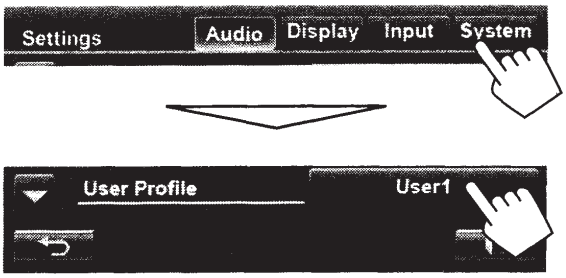
Интернет-магазин автозвука и автотоваров Винавто

Clearing your settings

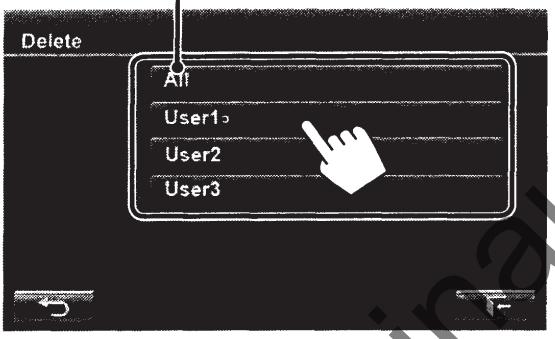
1 On <**Settings**>:



2

3

Clears all settings memorized in <**User1**>, <**User2**> and < **User3**>



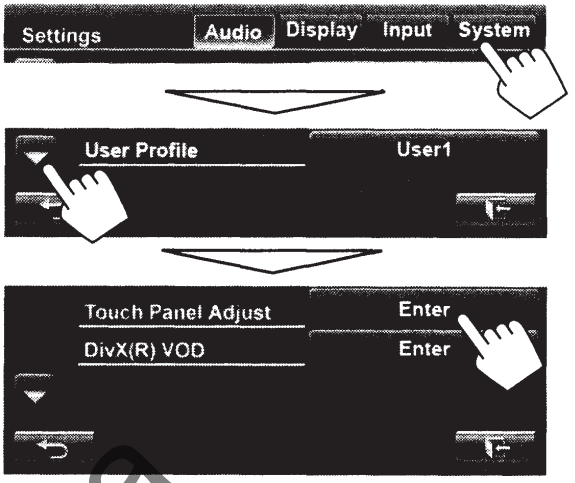
A confirmation message appears. Press [**Yes**].

4 Finish the procedure.

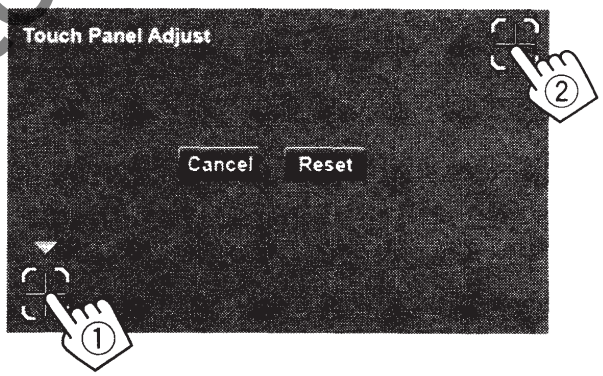
Adjusting the touch position

You can adjust the touch position on the touch panel if the position touched and the operation performed do not match.

1 On <**Settings**>:



2 Touch the center of the marks at the lower left and at the upper right as instructed.



- To cancel current operation, press [**Cancel**].
- To reset to the initial setting, press [**Reset**].

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BLUETOOTH OPERATIONS

Operations on a Bluetooth device (using JVC KS-BTA100, separately purchased)

For Bluetooth operations, it is required to connect the Bluetooth adapter, KS-BTA100 (separately purchased) to the LINE IN terminals on the rear of the unit. (☞ the Installation/Connection Manual)

- KS-BTA100 is not available in some countries. Please contact your dealer where you purchased this unit.
- For details, refer also to the instructions supplied with the Bluetooth adapter and the Bluetooth device.
- Operations may be different according to the connected device.

Caution

When JVC KS-U30 and JVC KS-BTA100 are connected at the same time, videos of iPod with video (5th Generation) cannot be played.

Preparation

1 Register (pair) a Bluetooth device with KS-BTA100.

- Refer to the instructions manual supplied with KS-BTA100.

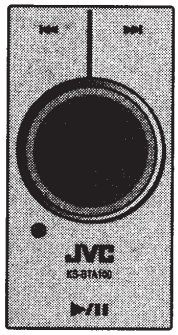
2 Select <BT> for <Audio Input> setting. (☞ page 47)

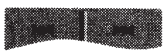
- "**Bluetooth**" is selectable as the source on <**AV Menu**>.

Using the Bluetooth audio player

1 Select "Bluetooth" as the source. (☞ page 13)

KS-BTA100



	Starts playback/pauses. • If playback does not start, operate the Bluetooth audio player to start playback.
	• Selects track. (Press) • Fast-forwards or reverses the track. (Hold)

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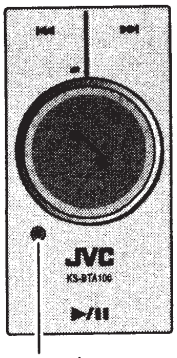
Using the Bluetooth mobile phone

KS-BTA100



Microphone

(Low) (High)	**Adjusting the microphone volume** Volume level: High/Normal (initial)/Low
(Press)	• **Receiving a call** When a call comes in... • **Making a call** Making a call to the last connected number from your phone. • **Switching between handsfree and phone** While talking...
(Hold)	• **Ends/rejects call** • **Voice dialing** Voice dialing is available only when the connected mobile phone has the voice recognition system.

About microphone volume:

- When you turn off the power of the unit, the volume level changes to Normal.

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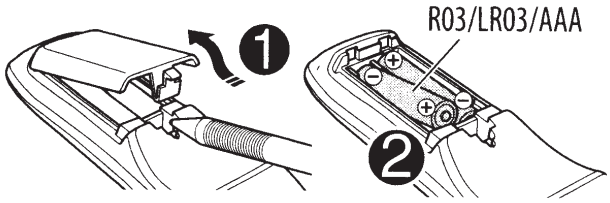
Using the remote controller

For KW-AV50: To use the remote controller, purchase RM-RK252P separately.

Installing the batteries



Insert the batteries into the remote controller by matching the polarity (+ and –) correctly.

Caution:

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Battery shall not be exposed to excessive heat such as sunshine, fire, or the like.

If the effectiveness of the remote controller decreases, replace the batteries.

Before using the remote controller:

- Aim the remote controller directly at the remote sensor on the unit.
- DO NOT expose the remote sensor to bright light (direct sunlight or artificial lighting).

The unit is equipped with the steering wheel remote control function.

- See the Installation/Connection Manual (separate volume) for connection.
- Operations may differ depending on the types of the steering wheel remote control.

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Operations using the remote controller (RM-RK252)

Button	Operations
ATT / ⏻/I	Attenuates/restores the sound.
DISP	Does not function for this unit.
▲/▼	• Tuner: Selects the preset stations. • HD Radio*: Selects a multicast channel. • Satellite radio *: Selects a category. • Selects a title/item/folder.

Button	Operations
⏮/⏭	• Tuner/HD Radio* : – Searches for stations automatically. – Searches for stations manually. (Hold) • Satellite radio* : – Selects a channel. – Selects a channel rapidly. (Hold) • Selects track. • Reverse search/forward search. (Hold)
◄◄/►►	• Reverse search/forward search. • DVD-Video/DVD-VR/VCD: Slow motion playback (during pause). – DVD-VR/VCD: Reverse slow motion does not work.

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Button	Operations
VOL +/VOL –	• Adjusts the volume level. • "2nd VOL" function does not work for this unit.
SOURCE	Selects the source.
▶/❚❚	Starts/pauses playback.
PHONE /	Does not function for this unit.
BAND / ■/	• Selects the bands. • Stops playback. • Ends the call. • "" does not work for this unit.
0 – 9 (☞ page 55)	• Enters a number while holding SHIFT. • "SETUP" function does not work for this unit.
1 – 6	Enters preset station number while holding SHIFT.
ASPECT	Changes the aspect ratio. • To check the current aspect ratio setting, operate on the touch panel. (☞ page 43)
RETURN	Returns to the previous screen.
TOP M (☞ page 55)	• DVD-Video: Shows the disc menu. • DVD-VR: Shows the Original Program screen. • VCD: Resumes PBC playback.
MENU (☞ page 55)	• DVD-Video: Shows the disc menu. • DVD-VR: Shows the Playlist screen. • VCD: Resumes PBC playback.
△/▽/◁/▷	• DVD-Video: Makes selection/ settings. • DivX*: Skips back or forward by about 5 minutes.

Button	Operations
ENT	Confirms selection.
OSD/✱	Does not function for this unit.
DUAL/#	Does not function for this unit.
SHIFT	Functions with other buttons.
DIRECT/CLR	• Enters direct search mode when pressed with SHIFT button. (☞ page 55) • Erases the misentry when pressed with SHIFT button. • "SURROUND" function does not work for this unit.

* *Only for KW-AV50.*

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Searching for an item directly

Tuner frequency (only while receiving conventional radio broadcast)

1. Press DIRECT while holding SHIFT to enter the search mode.
2. Press number buttons while holding SHIFT to enter a frequency.
   - To erase a misentry, press CLR (clear) while holding SHIFT.
3. Press ENT to confirm the entry.

DVD-Video/DVD-VR/DivX/MPEG1/MPEG2/JPEG/MP3/WMA/WAV/VCD/CD

1. Press DIRECT while holding SHIFT to enter the search mode.
   - Each time you press DIRECT, the item to search for changes.
2. Press a number button while holding SHIFT to select a desired item.
   - To erase a misentry, press CLR (clear) while holding SHIFT.
3. Press ENT to confirm the selection.

Various disc operations

Using the disc menu

- **DVD-Video/DVD-VR**

1. For DVD Video, press TOP M or MENU.
   For DVD-VR, press...
   TOP M: To display Original Program
   MENU: To display Playlist
2. Press △/▽/◁/▷ to select an item you want to start play.
3. Press ENT to confirm the selection.

- **VCD**

During PBC playback...

1. Press DIRECT while holding SHIFT to enter the search mode.
2. Press a number button while holding SHIFT to select the item you want to play.
3. Press ENT to confirm the selection.

- To return to the previous screen, press RETURN.

To cancel PBC playback

1. Press ■ to stop PBC playback.
2. Press DIRECT while holding SHIFT.
3. Press a number button while holding SHIFT to select a desired track.
4. Press ENT to confirm the selection.

- To resume PBC, press TOP M or MENU.

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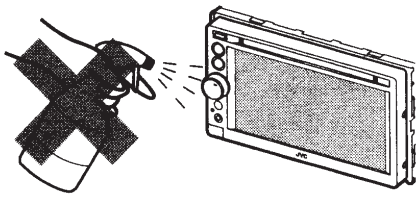
Maintenance

Caution on cleaning the unit

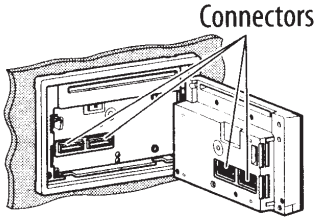


Do not use any solvent (for example, thinner, benzine, etc.), detergent, or insecticide. This may damage the monitor or the unit.

Recommended cleaning method:

Gently wipe the panel with a soft, dry cloth.

How to clean the connector



Frequent detachment will deteriorate the connectors.

To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in their cases after use.

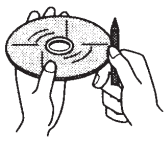
To keep discs clean

A dirty disc may not play correctly.

If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs



New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.

To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

3 inch disc

Warped disc

Sticker and sticker residue

Stick-on label

Unusual shape

C-thru Disc (semi-transparent disc)

Transparent or semi-transparent parts on its recording area

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More about this unit

File playback

Playing DivX files (for discs only)

- This unit can play back DivX files with the extension code <.divx>, <.div>, or <.avi> (regardless of the letter case—upper/lower).
- Audio stream should conform to MP3 or Dolby Digital.
- The file encoded in the interlaced scanning mode may not be played back correctly.
- The maximum bit rate for video signals (average) is 4 Mbps.

Playing MPEG1/MPEG2 files

- This unit can play back MPEG1/MPEG2 files with the extension code <.mpg>, <.mpeg>, or <.mod>.
- The stream format should conform to MPEG system/ program stream.
  The file format should be MP@ML (Main Profile at Main Level)/SP@ML (Simple Profile at Main Level)/ MP@LL (Main Profile at Low Level).
- Audio streams should conform to MPEG1 Audio Layer-2 or Dolby Digital.
- The maximum bit rate for video signals (average) is 4 Mbps.

Playing JPEG files

- This unit can play back JPEG files with the extension code <.jpg>, or <.jpeg>.
- This unit can play back JPEG files that are at 32 x 32 to 8 192 x 7 680 resolution.
  It may take time to display the file depending on its resolution.
- This unit can play back baseline JPEG files.
  Progressive JPEG files or lossless JPEG files cannot be played.

We bear no responsibility for any loss of data in an iPod/iPhone and USB mass storage class device while using this unit.

Playing MP3/WMA/WAV files

- This unit can play back files with the extension code <.mp3>, <.wma>, or <.wav> (regardless of the letter case—upper/lower).
- This unit can play back the files meeting the conditions below:
  - Bit rate:
    MP3/WMA: 32 kbps — 320 kbps
  - Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG2)
    48 kHz, 44.1 kHz, 32 kHz, 22.05 kHz (for WMA)
    44.1 kHz (for WAV)
- This unit can show ID3 Tag Version 1.0/1.1/2.2/2.3/2.4 (for MP3).
- This unit can also show WAV/WMA Tag.
- This unit can play back files recorded in VBR (variable bit rate).
- Files recorded in VBR have a discrepancy in elapsed time indication.
- This unit cannot play back the following files:
  - MP3 files encoded with MP3i and MP3 PRO format.
  - MP3 files encoded with Layer 1/2.
  - WMA files encoded with lossless, professional, and voice format.
  - WMA files which are not based upon Windows Media® Audio.
  - WMA files copy-protected with DRM.

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Sound signals emitted through the rear terminals

Through the analog terminals (Speaker out/REAR OUT/FRONT OUT)

2-channel signal is emitted. When playing multi-channel encoded disc, multi-channel signals are downmixed.

Language codes (for DVD/DivX language selection)

Code	Language	Code	Language	Code	Language	Code	Language
AA	Afar	GL	Galician	MI	Maori	SO	Somali
AB	Abkhazian	GN	Guarani	MK	Macedonian	SQ	Albanian
AF	Afrikaans	GU	Gujarati	ML	Malayalam	SR	Serbian
AM	Ameharic	HA	Hausa	MN	Mongolian	SS	Siswati
AR	Arabic	HI	Hindi	MO	Moldavian	ST	Sesotho
AS	Assamese	HR	Croatian	MR	Marathi	SU	Sundanese
AY	Aymara	HU	Hungarian	MS	Malay (MAY)	SW	Swahili
AZ	Azerbaijani	HY	Armenian	MT	Maltese	TA	Tamil
BA	Bashkir	IA	Interlingua	MY	Burmese	TE	Telugu
BE	Byelorussian	IE	Interlingue	NA	Nauru	TG	Tajik
BG	Bulgarian	IK	Inupiak	NE	Nepali	TH	Thai
BH	Bihari	IN	Indonesian	NO	Norwegian	TI	Tigrinya
BI	Bislama	IS	Icelandic	OC	Occitan	TK	Turkmen
BN	Bengali, Bangla	IW	Hebrew	OM	(Afan) Oromo	TL	Tagalog
BO	Tibetan	JA	Japanese	OR	Oriya	TN	Setswana
BR	Breton	JI	Yiddish	PA	Panjabi	TO	Tonga
CA	Catalan	JW	Javanese	PL	Polish	TR	Turkish
CO	Corsican	KA	Georgian	PS	Pashto, Pushto	TS	Tsonga
CS	Czech	KK	Kazakh	QU	Quechua	TT	Tatar
CY	Welsh	KL	Greenlandic	RM	Rhaeto-Romance	TW	Twi
DZ	Bhutani	KM	Cambodian	RN	Kirundi	UK	Ukrainian
EL	Greek	KN	Kannada	RO	Rumanian	UR	Urdu
EO	Esperanto	KO	Korean (KOR)	RW	Kinyarwanda	UZ	Uzbek
ET	Estonian	KS	Kashmiri	SA	Sanskrit	VI	Vietnamese
EU	Basque	KU	Kurdish	SD	Sindhi	VO	Volapuk
FA	Persian	KY	Kirghiz	SG	Sangho	WO	Wolof
FI	Finnish	LA	Latin	SH	Serbo-Croatian	XH	Xhosa
FJ	Fiji	LN	Lingala	SI	Singhalese	YO	Yoruba
FO	Faroese	LO	Laothian	SK	Slovak	ZU	Zulu
FY	Frisian	LT	Lithuanian	SL	Slovenian		
GA	Irish	LV	Latvian, Lettish	SM	Samoan		
GD	Scots Gaelic	MG	Malagasy	SN	Shona		

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- "DVD Logo" is a trademark of DVD Format/Logo Licensing Corporation registered in the US, Japan and other countries.
- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- "Made for iPod," and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, or iPhone may affect wireless performance. iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.
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Only for KW-AV50:

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- DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.
  ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.
  ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

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SAFETY INSTRUCTIONS

Use of the iPhone Navigation App is only permitted if the traffic conditions are suitable and you are absolutely sure that no risk, obstruction or injury will be incurred to you, your passengers or other road users. The requirements of the Road Traffic Regulations must always be followed and may vary by state. The destination must not be entered while the vehicle is in motion.
iPhone Navigation guidance may not be applicable to the current situation because of changes in traffic conditions (e.g. changes in tollroads, principal roads, one-way traffic, or other traffic regulations). In this case, observe the current traffic signs or regulations.

- Traffic signs should be observed carefully while driving using the iPhone Navigation App. iPhone Navigation App is only an aid. Driver must always decide whether or not to heed the information provided. **We do not accept liability for erroneous data provided by the iPhone Navigation App.**
- **Do not operate the unit while driving.**

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Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

- For operations with the external components, refer also to the instructions supplied with the adapters used for the connections (as well as the instructions supplied with the external components).
- Messages (enclosed in " ") in the tables below are shown in the language selected on <**Text Language**> (☞ page 48). Messages described here are in the language of this manual.

If the following messages appear

Message	Remedy/Cause
"No Signal"	• Start the playback on the external component connected to VIDEO IN jack. • Check the cords and connections. • Signal input is too weak. • Rear view camera is not connected while <**Camera**> is selected for <**Display**>. To restore the screen, press MENU/DISP OFF to display <**AV Menu**>, then press [**AV**].
"Miswiring Check wiring connection and then reset unit" "Warning Check wiring connection and then reset unit"	A speaker cord has shorted or it has come in to contact with the car chassis. Wire or insulate the speaker cord as appropriate, then reset the unit (☞ page 3). See also the Installation/Connection Manual.
"Parking Brake"	No playback picture is shown when the parking brake is not engaged.
"Eject Error" "Loading Error"	Eject the disc forcibly. (☞ page 3)
"Restricted Device"	Check whether the connected iPod/iPhone is compatible with this unit. (☞ page 27)
"USB Device Error"	• The USB power voltage is abnormal. • Turn off and turn on the unit. • Connect another USB device.

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If there seems to be a problem

	Symptom	Remedy/Cause
General	No sound comes out of the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	No picture is displayed on the screen.	Turn on the screen. (☞ page 10)
	The unit does not work at all.	Reset the unit. (☞ page 3)
	The remote controller* does not work.	Replace the battery.
	The screen does not appear.	Press and hold the MENU button to change the display to AV source screen.
TUNER	SSM automatic presetting does not work.	Store stations manually. (☞ page 16)
	Static noise while listening to the radio.	Connect the antenna firmly.
Disc in general	Disc can be neither recognized nor played back.	Eject the disc forcibly. (☞ page 3)
	Disc cannot be ejected.	Unlock the disc. (☞ page 18)
	• Recordable/Rewritable discs cannot be played back. • Tracks on the Recordable/Rewritable discs cannot be skipped.	• Insert a finalized disc. • Finalize the discs with the component which you used for recording.
	Playback does not start.	The format of files is not supported by the unit.
	No picture appears on the external monitor.	• Connect the video cord correctly. • Select the correct input on the external monitor.
DivX/MPEG1/MPEG2/ JPEG/MP3/WMA/WAV	Disc cannot be played back.	• Record the tracks using a compliant application on the appropriate discs. (☞ page 19) • Add appropriate extension codes to the file names.
	Tracks are not played back as you have intended them to play.	Playback order may differ from the one played back using other players.
USB	"Now Reading..." keeps flashing on the screen.	Turn off the power and on again.
	While playing a track, sound is sometimes interrupted.	The tracks are not properly copied into the USB device. Copy tracks again, and try again.

* *For KW-AV50: Purchase RM-RK252P separately.*

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	Symptom	Remedy/Cause
iPod/iPhone	No sound comes out of the speakers.	• Disconnect the iPod, then connect it again. • Select another source and then reselect "iPod".
	The iPod/iPhone does not turn on or does not work.	• Check the connecting cable and its connection. • Charge the battery. • Check whether the iPod control mode is correctly selected. (☞ page 28) • Reset the iPod/iPhone.
	Sound is distorted.	Deactivate the equalizer either on this unit or the iPod/iPhone.
	A lot of noise is generated.	Turn off (uncheck) the "VoiceOver" feature of the iPod. For details, visit <http://www.apple.com>.
	No operations are available when playing back a track containing Artwork.	Operate the unit after the Artwork is loaded. (☞ page 29)
	• Sound does not synchronize with the video. • No sound of videos come out.	• Connect with USB Audio and Video cable JVC KS-U30. Other cables cannot be used. • Select <**iPod**> for both <**Audio Input**> and <**Video Input**>. (☞ page 47)
AV-IN	No picture appears on the screen.	• Turn on the video component if it is not on. • Connect the video component correctly.

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	Symptom	Remedy/Cause
Satellite radio (only for KW-AV50)	"CALL 1-888-539-SIRIUS TO SUBSCRIBE" appears on the screen.	SIRIUS Satellite Radio is connected but does not have an active subscription. For information on how to subscribe, ☞ page 33.
	"Acquiring Signal" or "NO SIGNAL" appears on the screen.	Make sure your Satellite Radio antenna is mounted outside the vehicle. Move vehicle to an area with a clear view of the sky.
	"No Antenna" or "CHECK ANTENNA" appears on the screen.	Check your satellite radio antenna connection and be sure it is firmly attached.
	"Invalid channel" appears on the screen for about 5 seconds, then returns to the previous display when listening to the SIRIUS Satellite radio.	No broadcast on the selected channel. Select another channel or continue listening to the previous channel.
	"CH---" or "CHANNEL UNAVL" appears on the screen for about 2 seconds, then returns to the previous channel while listening to the XM Satellite radio.	Selected channel is no longer available or is unauthorized. Select another channel or continue listening to the previous channel.
	No information appears on the screen.	No text information for the selected channel.
	"UPDATING" or "UNAUTH" appears on the screen and no sound can be heard.	The receiver is updating the channel information and it takes a few minutes to complete.
	"OFF AIR" appears on the screen while listening to the XM Satellite radio.	Selected channel is not broadcasting at this time. Select another channel or continue listening to the previous channel.
	"LOADING" appears on the screen while listening to the XM Satellite radio.	The unit is loading the channel information and audio. Text information is temporarily unavailable.
	"Reset08" appears on the screen.	Reconnect this unit and the Satellite radio correctly and reset the unit.
	Satellite radio does not work at all.	Reconnect the Satellite radio after a few seconds.
HD Radio reception (Only for KW-AV50)	• Sound quality changes when receiving HD Radio stations.	Fix the reception mode either to <**DIGITAL**> or <**ANALOG**>. (☞ page 37)
	• No sound can be heard.	• <**ANALOG**> is selected when receiving all digital broadcast of HD Radio station. Select <**DIGITAL**> or <**AUTO**>. (☞ page 37) • <**DIGITAL**> is selected when receiving weak digital signals or receiving conventional radio broadcast. Select <**ANALOG**> or <**AUTO**>. (☞ page 37)
	• "Reset08" appears on the screen.	Reconnect this unit and the HD Radio tuner box correctly, then reset the unit.

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Specifications

AMPLIFIER	**Power Output**	**20 W RMS × 4 Channels at 4 Ω and ≤ 1% THD+N**		
	Signal-to-Noise Ratio	80 dBA (reference: 1 W into 4 Ω)		
	Load Impedance			4 Ω (4 Ω to 8 Ω allowance)
	Equalizer Control Range Level			±10 dB
	Audio Output Level FRONT OUT, REAR OUT, SUBWOOFER OUT	Line-Out Level/Impedance		4 V/20 kΩ load (full scale)
		Output Impedance		1 kΩ
	Video Output (composite) VIDEO OUT	Color System		PAL/NTSC
		Video-Out Level/Impedance		1 Vp-p/75 Ω
	Other Terminals	Input		LINE IN, VIDEO IN, CAMERA IN, USB input, AUX, Antenna input
		Others		Expansion port*, OE REMOTE, RGB input
FM/AM TUNER	Frequency Range	FM	with channel interval set to 200 kHz	87.9 MHz to 107.9 MHz
			with channel interval set to 50 kHz	87.5 MHz to 108.0 MHz
		AM	with channel interval set to 10 kHz	530 kHz to 1 700 kHz
			with channel interval set to 9 kHz	531 kHz to 1 611 kHz
	FM Tuner	Usable Sensitivity		9.3 dBf (0.8 µV/75 Ω)
		50 dB Quieting Sensitivity		16.3 dBf (1.8 µV/75 Ω)
		Alternate Channel Selectivity (400 kHz)		65 dB
		Frequency Response		40 Hz to 15 000 Hz
		Stereo Separation		40 dB
	AM Tuner	Sensitivity/Selectivity		20 µV/40 dB
DVD/CD	Signal Detection System	Non-contact optical pickup (semiconductor laser)		
	Frequency Response	DVD, fs=48 kHz/96 kHz		16 Hz to 22 000 Hz
		VCD/CD		16 Hz to 20 000 Hz
	Dynamic Range			93 dB
	Signal-to-Noise Ratio			95 dB
	Wow and Flutter			Less than measurable limit

* *Only for KW-AV50.*

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USB	USB Standards	USB 2.0 Full Speed	
	Data Transfer Rate	Full Speed	Maximum 12 Mbps
		Low Speed	Maximum 1.5 Mbps
	Compatible Device	Mass storage class	
	Compatible File System	FAT 32/16/12	
	Max. Current	DC 5 V ⎓ 1 A	
MONITOR	Screen Size	6.1 inch wide liquid crystal display	
	Number of Pixel	1 152 000 pixels: 800 (horizontal) × 3 (RGB) × 480 (vertical)	
	Drive Method	TFT (Thin Film Transistor) active matrix format	
	Color System	NTSC/PAL	
	Aspect Ratio	16:9 (wide)	
GENERAL	Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
	Grounding System		Negative ground
	Allowable Storage Temperature		–10°C to +60°C (14°F to 140°F)
	Allowable Operating Temperature		0°C to +40°C (32°F to 104°F)
	Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 111 mm × 160 mm (7-3/16" × 4-3/8" × 6-5/16")
		Panel Size (approx.)	188 mm × 117 mm × 10 mm (7-7/16" × 4-5/8" × 7/16")
	Mass (approx.)		2.3 kg (5.1 lbs) (including the Trim plate and Sleeve)

Design and specifications are subject to change without notice.

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If a kit is necessary for your car, consult your telephone directory for the nearest car audio speciality shop.

Интернет-магазин автозвука и автотоваров Винавто

Having TROUBLE with operation?
Please reset your unit

Refer to page of How to reset your unit

Still having trouble??

USA ONLY

Call 1-800-252-5722

http://www.jvc.com

We can help you!

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JVC

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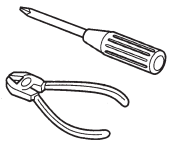
0911NSHMDWJEIN

Интернет-магазин автозвука и автотоваров Винавто

KW-AV58/KW-AV50

Installation/Connection Manual
Manual de instalación/conexión
Manuel d'installation/raccordement



LVT2285-002A
[J/JW]

0911NSHMDWJEIN
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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

WARNINGS

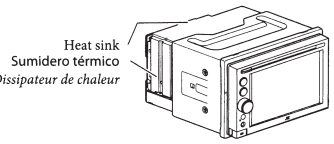
- DO NOT install any unit or wire any cable in a location where;
  - it may obstruct the steering wheel and gearshift lever operations, as this may result in a traffic accident.
  - it may obstruct the operation of safety devices such as air bags, as this may result in a fatal accident.
  - it may obstruct visibility.
- DO NOT operate any unit while manipulating the steering wheel, as this may result in a traffic accident.
- The driver must not watch the monitor while driving. It may lead to carelessness and cause an accident.
- If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.
- If the parking brake is not engaged, "Parking Brake" appears on the monitor, and no playback picture will be shown.
  - This warning appears only when the parking brake lead is connected to the parking brake system built in the car.

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**
- Be sure any cable is not caught on the car's chassis or under seats.

Notes on electrical connections:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- It is recommended to connect speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω** to **8 Ω**).
  If the maximum power is less than 50 W, change <Amplifier Gain> setting to prevent the speakers from being damaged (see page 45 of the INSTRUCTIONS).
- To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.
- At the time of installation, be sure to fix all wires (wires both from this unit and from the car itself) in a way that any wires cannot come into contact with heat sinks on the rear and side of the unit.



ESPAÑOL

Esta unidad está diseñada para funcionar con **12 V de CC, con sistemas eléctricos de masa NEGATIVA**. Si su vehículo no posee este sistema, será necesario un inversor de tensión, que puede ser adquirido en los concesionarios de JVC de equipos de audio para automóviles.

ADVERTENCIAS

- NO instale ningún receptor o tienda ningún cable en una ubicación donde;
  - donde pueda obstruir la maniobra del volante de dirección y del cambio de engranajes, con el consiguiente riesgo de accidentes de tráfico.
  - donde pueda obstruir el funcionamiento de dispositivos de seguridad tales como bolsas de aire, pues podría resultar en un accidente fatal.
  - donde pueda obstruir la visibilidad.
- NO OPERE la unidad mientras está maniobrando el volante de dirección, pues podría producirse un accidente de tráfico.
- El conductor no debe mirar el monitor mientras conduce. Podría producirse un descuido, y causar un accidente.
- Si necesita operar la unidad mientras conduce, asegúrese de mirar atentamente a su alrededor pues de lo contrario, se podría producir un accidente de tráfico.
- Si el freno de mano no está en uso, aparecerá "Parking Brake (Freno de Mano)" en la pantalla y no se mostrará ninguna secuencia de imagen.
  - Esta advertencia aparece únicamente cuando el cable del freno de estacionamiento se encuentra conectado al sistema del freno de estacionamiento incorporado al automóvil.

Para evitar cortocircuitos, recomendamos que desconecte el terminal negativo de la batería y que efectúe todas las conexiones eléctricas antes de instalar la unidad.

- **Asegúrese de volver a conectar a masa esta unidad al chasis del automóvil después de la instalación.**
- Asegúrese de que ningún cable quede atrapado en el chasis del automóvil o debajo de los asientos.

Notas sobre las conexiones eléctricas:

- Reemplace el fusible por otro del régimen especificado. Si el fusible se funde frecuentemente, consulte con su concesionario de JVC de equipos de audio para automóviles.
- Se recomienda conectar los altavoces con una potencia máxima de más de 50 W (tanto atrás como adelante, con una impedancia de **4 Ω** a **8 Ω**).
  Si la potencia máxima es de menos de 50 W, cambie <Amplifier Gain> para evitar daños en los altavoces (consulte la página 45 del MANUAL DE INSTRUCCIONES).
- Para evitar cortocircuitos, cubra los cables NO UTILIZADOS con cinta aislante.
- El sumidero térmico estará muy caliente después del uso. Asegúrese de no tocarlo al desmontar esta unidad.
- Al realizar la instalación, asegúrese de fijar todos los cables (tanto los que proceden de esta unidad como los del vehículo en sí) de manera tal que ninguno quede en contacto con los disipadores térmicos de las partes traseras y laterales de la unidad.

FRANÇAIS

Cet appareil est conçu pour fonctionner sur des sources de **courant continu de 12 V à masse NEGATIVE**. *Si votre véhicule n'offre pas ce type d'alimentation, il vous faut un convertisseur de tension, que vous pouvez acheter chez un revendeur d'autoradios JVC.*

AVERTISSEMENTS

- *N'INSTALLEZ aucun appareil ni aucun câble dans un endroit où:*
  - *où il peut gêner l'accès au volant ou au levier de vitesse car cela peut entraîner un accident de la circulation.*
  - *où il peut gêner la manipulation de dispositifs de sécurité tels que les airbags car cela peut entraîner un accident fatal.*
  - *où il peut gêner la visibilité.*
- *NE COMMANDEZ PAS l'appareil lors de la manipulation du volant car cela peut entraîner un accident de la circulation.*
- *Le conducteur ne doit pas regarder le moniteur lorsqu'il conduit. Cela peut lui faire perdre sa concentration et causer un accident.*
- *Si vous souhaitez opérer l'appareil pendant que vous conduisez, assurez-vous de bien regarder autour de vous afin de ne pas causer un accident de la circulation.*
- *Si le frein à main n'est pas engagé, "Parking Brake (Frein à Main)" s'affiche sur le moniteur et aucune image de lecture n'apparaît.*
  - *Cet avertissement apparaît uniquement quand le fil du frein de stationnement est connecté au système de frein de stationnement intégré à la voiture.*

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil.

- **Assurez-vous de raccorder de nouveau la mise à la masse de cet appareil au châssis de la voiture après l'installation.**
- *Assurez-vous qu'aucun câble n'est coincé sur châssis de la voiture ou sous les sièges.*

Remarques sur les connexions électriques:

- *Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.*
- *Il est recommandé de connecter des enceintes avec une puissance de plus de 50 W (les enceintes arrière et les enceintes avant, avec une impédance comprise entre* **4 Ω** *à* **8 Ω**).
  Si la puissance maximum est inférieure à 50 W, changez <Amplifier Gain> pour éviter d'endommager vos enceintes (voir page 45 du MANUEL D'INSTRUCTIONS).
- *Pour éviter les court-circuits, couvrir les bornes des fils qui ne sont PAS UTILISÉS avec de la bande isolante.*
- *Le dissipateur de chaleur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.*
- *Au moment de l'installation, assurez-vous de fixer tous les fils (les fils de cet appareil et aussi de la voiture elle-même) de façon qu'aucun fil ne puisse entrer en contact avec les dissipateurs de chaleur situés à l'arrière et sur le côté de l'appareil.*

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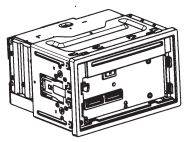
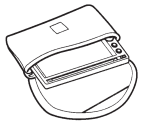
Parts list for installation and connection

The following parts are provided for this unit.
If anything is missing, contact your dealer immediately.

Main unit/Sleeve/Trim plate
Unidad principal/Cubierta/Placa de guarnición
Appareil principal/Manchon/Plaque d'assemblage



Monitor panel and soft case
Panel del monitor y estuche blando
Panneau du moniteur et étui souple



Crimp connector
Conector de sujeción
Raccord à sertir

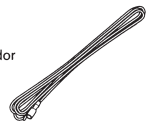
Mounting bolt—M4 x 20 mm/M4 x 13/16"
Perno de montaje—M4 x 20 mm/M4 x 13/16 pulgada
Boulon de montage—M4 x 20 mm/M4 x 13/16 pouces

Washer (ø5)
Arandela (ø5)
Rondelle (ø5)

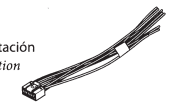
Rubber cushion
Cojín de goma
Amortisseur en caoutchouc

Lock nut (M5)
Tuerca de seguridad (M5)
Ecrou d'arrêt (M5)

Extension lead
Cable prolongador
Fil prolongateur



Power cord
Cordón de alimentación
Cordon d'alimentation

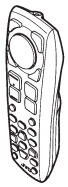


Handles
Manijas
Poignées

Only for KW-AV58
Sólo para KW-AV58
Uniquement pour le KW-AV58

Remote controller
Control remoto
Télécommande

RM-RK252



Flat head screws (M5 x 8 mm/M5 x 3/8")
Tornillos de cabeza plana (M5 x 8 mm/M5 x 3/8 pulgada)
Vis à tête plate (M5 x 8 mm/M5 x 3/8 pouces)

Round head screws (M5 x 8 mm/M5 x 3/8")
Tornillos de cabeza esférica (M5 x 8 mm/M5 x 3/8 pulgada)
Vis à tête ronde (M5 x 8 mm/M5 x 3/8 pouces)

Use these screws when installing the unit without the supplied sleeve. (See page 2.)
Utilice estos tornillos cuando instale la unidad sin la cubierta suministrada. (Consulte la página 2.)
Utilisez ces vis lors de l'installation de l'appareil sans le manchon fourni. (Voir page 2.)

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INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

Before installing the unit

- Remove the audio system originally installed in the car, together with its mounting brackets. Be sure to keep all the screws and parts removed from your car for future use.
- When mounting the unit, be sure to use the screws provided, as instructed. If other screws are used, parts could become loose or damaged.
- When tightening screws or bolts, be careful not to pinch any connection cord.
- Make sure not to block the fan on the rear to maintain proper ventilation when installing the unit.

When installing the unit without using the sleeve

- Use flat head screws or round head screws, depending on installation location. When you use flat head screws to install the unit, use the screws removed in step 1 below. When you use screws other than those supplied, use 8 mm (3/8")-long screws. If longer screws are used, they could damage the unit.
- Tighten the screws firmly to prevent the unit from falling off.

INSTALACIÓN (MONTAJE EN EL TABLERO DE INSTRUMENTOS)

La siguiente ilustración muestra una instalación típica. Sin embargo usted deberá efectuar los ajustes correspondientes a su automóvil. Si tiene alguna pregunta o necesita información acerca de las herramientas para instalación, consulte con su concesionario de JVC de equipos de audio para automóviles o a una compañía que suministra tales herramientas.

- Si no está seguro de poder instalar la unidad correctamente, déjela en manos de un técnico cualificado.

Antes de instalar la unidad

- Desmonte el sistema de audio instalado originalmente en el coche, junto con los ménsulas de montaje. Asegúrese de guardar todos los tornillos y piezas quitados de su vehículo para poderlos usar en el futuro.
- Al instalar la unidad, asegúrese de usar los tornillos suministrados, de acuerdo con las instrucciones. El uso de otros tornillos podrá provocar flojedad de o daños a las piezas.
- Al apretar los tornillos o los pernos, asegúrese de que ningún cable de conexión quede pillado.
- Al efectuar la instalación, asegúrese de no bloquear el ventilador del panel trasero a fin de mantener una ventilación correcta.

Instalación de la unidad sin utilizar la cubierta

- Utilice tornillos de cabeza plana o esférica, dependiendo del lugar de instalación. Si decide utilizar tornillos de cabeza plana para instalar la unidad, utilice los extraídos en el paso 1, más abajo. Si decide utilizar tornillos distintos de los suministrados, escoja tornillos de 8 mm (3/8") de largo. El uso de tornillos más largos producir daños a la unidad.
- Apriete los tornillos firmemente para evitar que la unidad se caiga.

INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

L'illustration suivante est un exemple d'installation typique. Cependant, vous devez faire les ajustements correspondant à votre voiture. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

- *Si vous n'êtes pas sûr de pouvoir installer l'appareil correctement, faite-le installer par un technicien qualifié.*

Avant d'installer l'appareil

- *Retirez le système audio d'origine installé dans la voiture en même temps que les supports de montage. Assurez-vous de conserver toutes les vis et pièces détachées de votre voiture pour une utilisation dans le future.*
- *Lors du montage de l'appareil, assurez-vous d'utiliser les vis fournies, de la façon indiquée. Si vous utilisez d'autres vis, certaines pièces peuvent être perdues ou endommagées.*
- *Lorsque vous serrez des vis ou des boulons, faites attention de ne pas pincer un cordon de connexion.*
- *Assurez-vous de ne pas bloquer le ventilateur sur le panneau arrière lors de l'installation afin de permettre une ventilation correcte.*

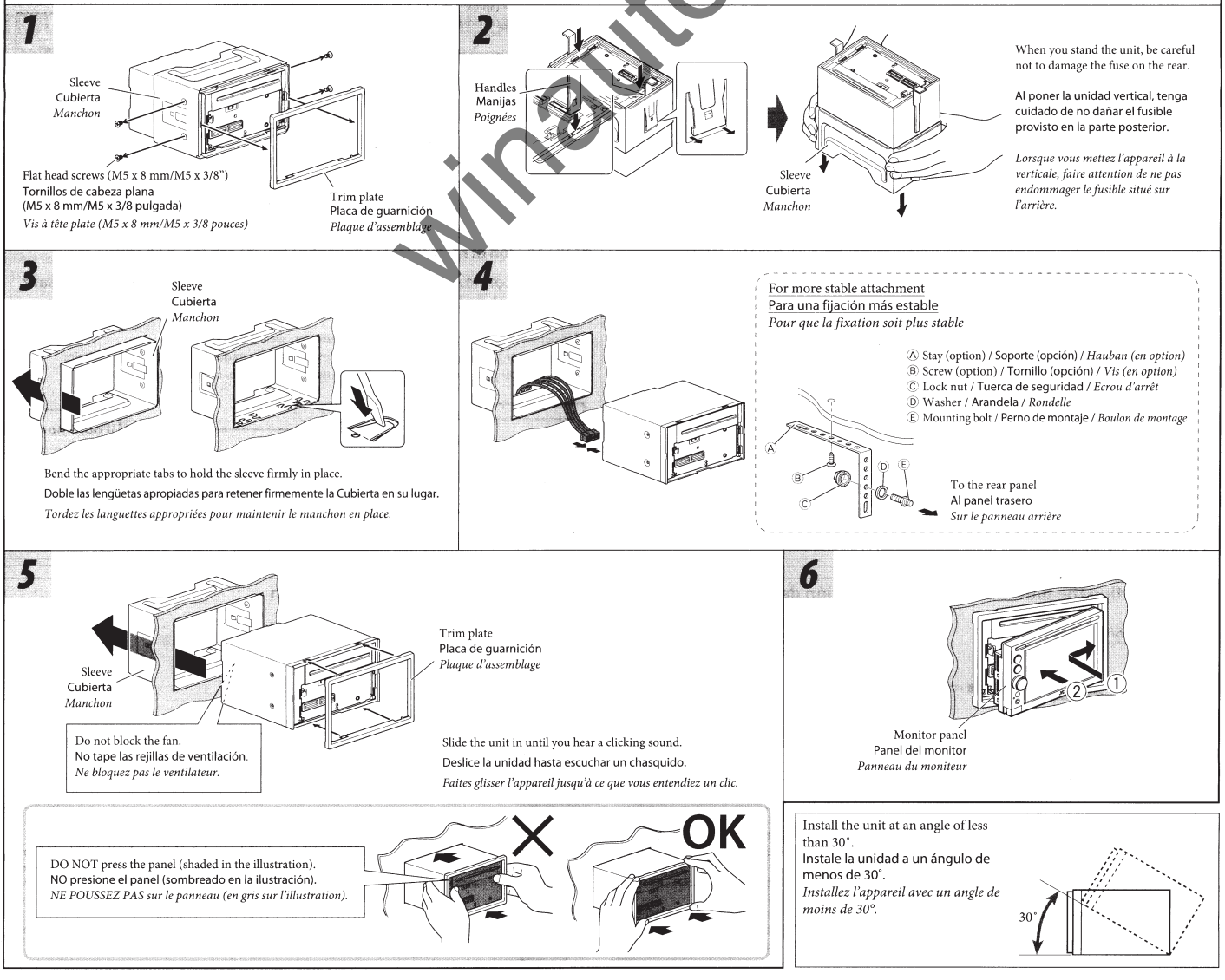
Lors de l'installation de l'appareil scans utiliser de manchon

- *Utilisez des vis à tête plate ou des vis à tête ronde, en fonction de l'emplacement de l'installation. Quand vous utilisez des vis à tête plage pour installer l'appareil, utilisez les vis retirées à l'étape 1 ci-dessous. Quand vous utilisez d'autres vis que les vis fournies, utilisez des vis d'une longueur de 8 mm (3/8"). Vous risquez d'endommager l'appareil si vous utilisez des vis plus longues.*
- *Serrez les vis solidement pour éviter que l'appareil tombe.*

1 Detach the trim plate and remove the screws.
2 Detach the sleeve using the handles then slide off the sleeve.
3 Install the sleeve in the dashboard of the car.
4 Do the required electrical connections.
• See pages 3 – 6.
5 Attach the trim plate to the main unit, then install the main unit in to the sleeve.
6 Attach the monitor panel.

1 Desmonte la placa de guarnición y extraiga los tornillos.
2 Sujetando las asas, desmonte la cubierta deslizándola.
3 Instale la cubierta en el tablero del automóvil.
4 Realice todas las conexiones eléctricas necesarias.
• Consulte las páginas 3 – 6.
5 Fije la placa de guarnición a la unidad principal y, a continuación, instale ésta en la cubierta.
6 Fije el panel del monitor.

1 *Détachez la plaque d'assemblage et retirez les vis.*
2 *Détachez le manchon en utilisant les poignées puis retirez-le.*
3 *Installez le manchon dans le tableau de bord de la voiture.*
4 *Réalisez les connexions électriques.*
• *Voir pages 3 – 6.*
5 *Attachez la plaque de garniture sur l'appareil principale, puis installez l'appareil dans le manchon.*
6 *Attachez le panneau du moniteur.*


1
Sleeve
Cubierta
Manchon
Flat head screws (M5 x 8 mm/M5 x 3/8")
Tornillos de cabeza plana
(M5 x 8 mm/M5 x 3/8 pulgada)
Vis à tête plate (M5 x 8 mm/M5 x 3/8 pouces)
Trim plate
Placa de guarnición
Plaque d'assemblage
2
Handles
Manijas
Poignées
Sleeve
Cubierta
Manchon
When you stand the unit, be careful not to damage the fuse on the rear.
Al poner la unidad vertical, tenga cuidado de no dañar el fusible provisto en la parte posterior.
Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur l'arrière.
3
Sleeve
Cubierta
Manchon
Bend the appropriate tabs to hold the sleeve firmly in place.
Doble las lengüetas apropiadas para retener firmemente la Cubierta en su lugar.
Tordez les languettes appropriées pour maintenir le manchon en place.
4
For more stable attachment
Para una fijación más estable
Pour que la fixation soit plus stable
Ⓐ Stay (option) / Soporte (opción) / Hauban (en option)
Ⓑ Screw (option) / Tornillo (opción) / Vis (en option)
Ⓒ Lock nut / Tuerca de seguridad / Ecrou d'arrêt
Ⓓ Washer / Arandela / Rondelle
Ⓔ Mounting bolt / Perno de montaje / Boulon de montage
To the rear panel
Al panel trasero
Sur le panneau arrière
5
Sleeve
Cubierta
Manchon
Trim plate
Placa de guarnición
Plaque d'assemblage
Do not block the fan.
No tape las rejillas de ventilación.
Ne bloquez pas le ventilateur.
Slide the unit in until you hear a clicking sound.
Deslice la unidad hasta escuchar un chasquido.
Faites glisser l'appareil jusqu'à ce que vous entendiez un clic.
6
Monitor panel
Panel del monitor
Panneau du moniteur
DO NOT press the panel (shaded in the illustration).
NO presione el panel (sombreado en la ilustración).
NE POUSSEZ PAS sur le panneau (en gris sur l'illustration).
OK
Install the unit at an angle of less than 30°.
Instale la unidad a un ángulo de menos de 30°.
Installez l'appareil avec un angle de moins de 30°.
30°

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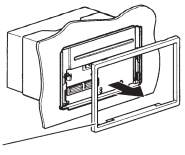
Removing the unit
Before removing the unit, release the rear section.

Extracción de la unidad
Antes de extraer la unidad, libere la sección trasera.

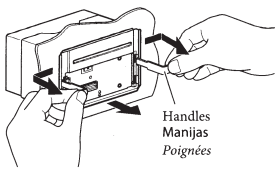
Retrait de l'appareil
Avant de retirer l'appareil, libérer la section arrière.

1 Detach the monitor panel (see page 5 of the INSTRUCTIONS).
Desmonte el panel del monitor (consulte la página 5 del MANUAL DE INSTRUCCIONES).
Détachez le panneau du moniteur (voir la page 5 du MANUEL D'INSTRUCTIONS).

2 Detach the trim plate.
Desmonte la placa de guarnición.
Détachez la plaque d'assemblage.



3 Insert the two handles, then pull them as illustrated so that the unit can be removed.
Inserte las dos manijas y, a continuación, jálelas tal como se muestra en la ilustración para desmontar la unidad.
Insérez les deux poignées, puis tirez de la façon illustrée de façon à retirer l'appareil.



ELECTRICAL CONNECTIONS

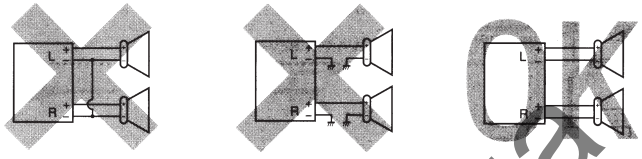
PRECAUTIONS on power supply and speaker connections:
- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.

CONEXIONES ELECTRICAS

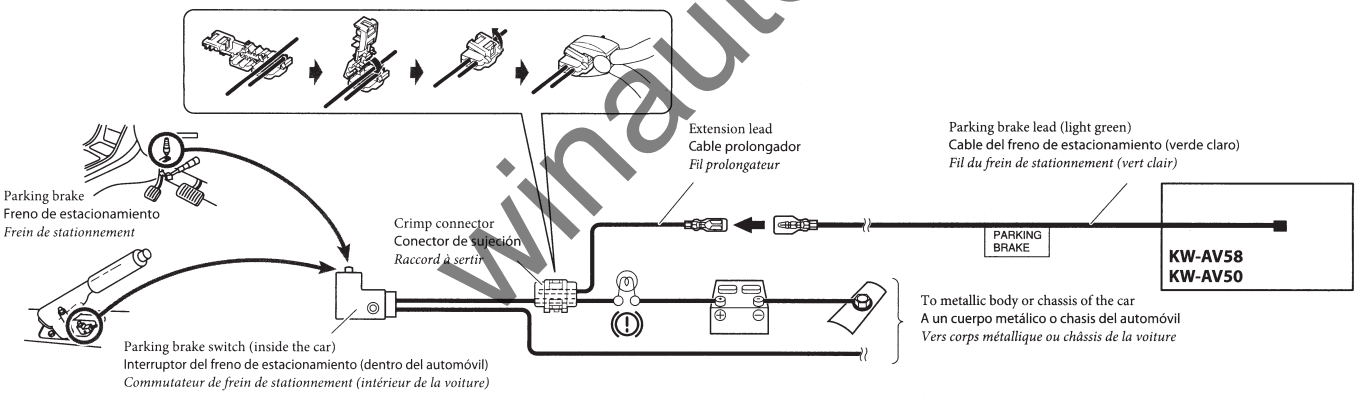
PRECAUCIONES sobre las conexiones de la fuente de alimentación y de los altavoces:
- **NO conecte los conductores de altavoz del cable de alimentación a la batería de automóvil, pues podrían producirse graves daños en la unidad.**
- ANTES de conectar a los altavoces los conductores de altavoz del cable de alimentación, verifique el conexionado de altavoz de su automóvil.

RACCORDEMENTS ELECTRIQUES

PRECAUTIONS sur l'alimentation et la connexion des enceintes:
- **NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.**
- *AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.*



Connecting the parking brake lead / Conexión del cable del freno de estacionamiento / Connexion du fil de frein de stationnement

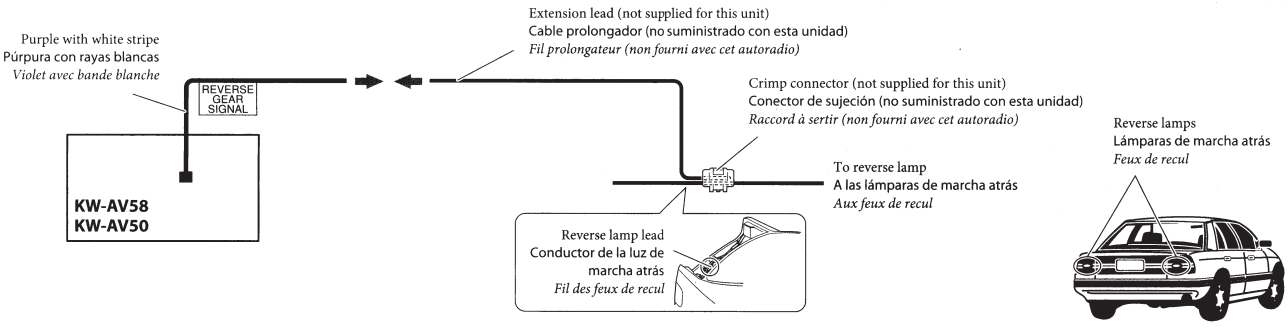

Parking brake
Freno de estacionamiento
Frein de stationnement
Parking brake switch (inside the car)
Interruptor del freno de estacionamiento (dentro del automóvil)
Commutateur de frein de stationnement (intérieur de la voiture)
Crimp connector
Conector de sujeción
Raccord à sertir
Extension lead
Cable prolongador
Fil prolongateur
Parking brake lead (light green)
Cable del freno de estacionamiento (verde claro)
Fil du frein de stationnement (vert clair)
PARKING BRAKE
KW-AV58
KW-AV50
To metallic body or chassis of the car
A un cuerpo metálico o chasis del automóvil
Vers corps métallique ou châssis de la voiture

Connecting the reverse gear signal lead (for rear view camera) / Conexión del cable de señal del engranaje de marcha atrás (para cámara de retrovisión) / Connexion du fil de signal de marche arrière (pour la caméra de recul)

Locate the reverse lamp lead in the trunk.

Localice el conductor de la luz de marcha atrás en el portaequipajes.

Localisez le fil des feux de recul dans le coffre.


Purple with white stripe
Púrpura con rayas blancas
Violet avec bande blanche
REVERSE GEAR SIGNAL
KW-AV58
KW-AV50
Extension lead (not supplied for this unit)
Cable prolongador (no suministrado con esta unidad)
Fil prolongateur (non fourni avec cet autoradio)
Crimp connector (not supplied for this unit)
Conector de sujeción (no suministrado con esta unidad)
Raccord à sertir (non fourni avec cet autoradio)
To reverse lamp
A las lámparas de marcha atrás
Aux feux de recul
Reverse lamp lead
Conductor de la luz de marcha atrás
Fil des feux de recul
Reverse lamps
Lámparas de marcha atrás
Feux de recul

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ENGLISH | ESPAÑOL | FRANÇAIS

Before connecting: Check the wiring in the vehicle carefully.
Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

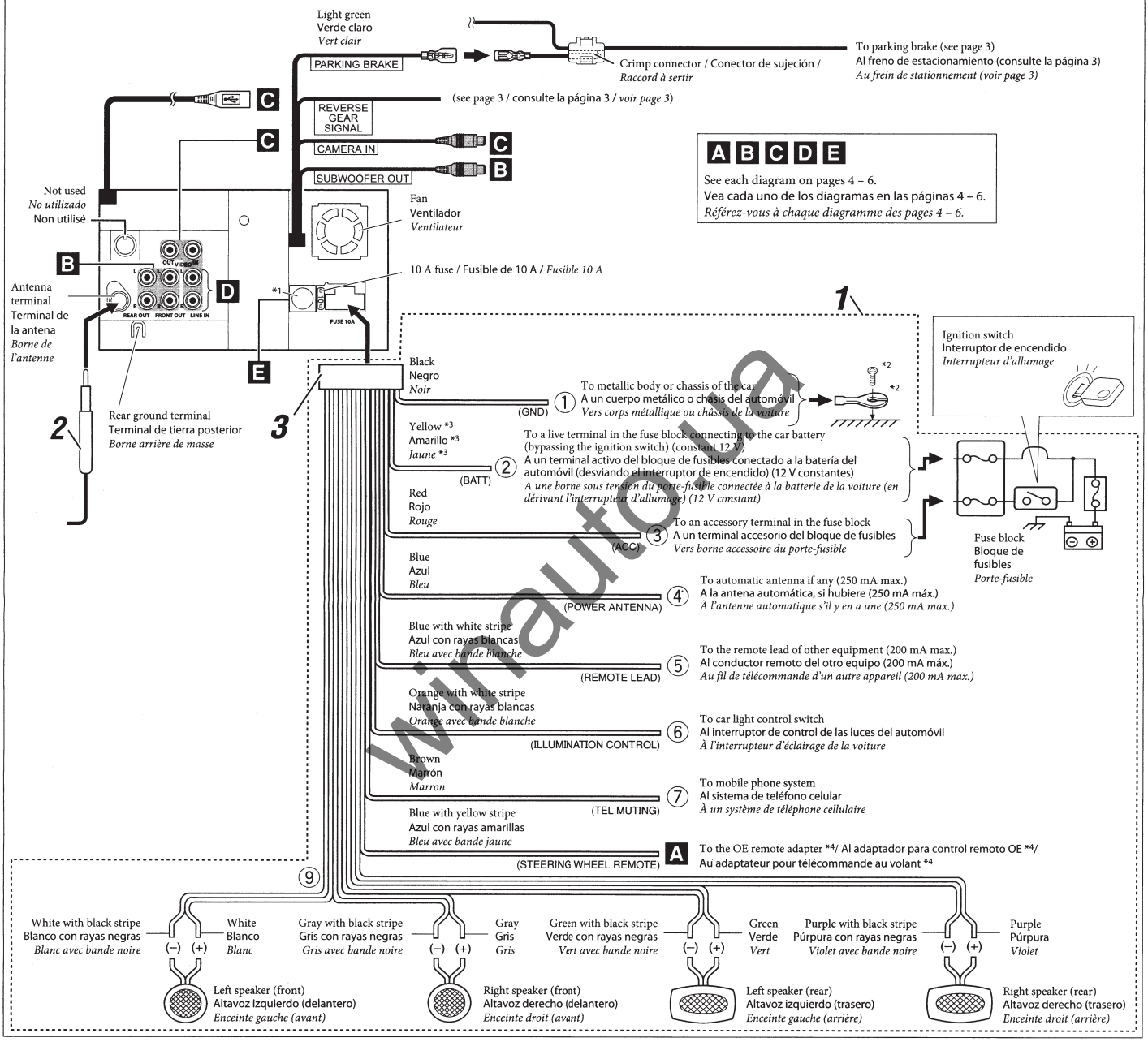
1 Connect the colored leads of the power cord in the order specified in the illustration below.
2 Connect the antenna cord.
3 Finally connect the wiring harness to the unit.

Antes de la conexión: Verifique atentamente el conexionado del vehículo. Una conexión incorrecta podría producir daños graves en la unidad.
Los cordones del cable de alimentación y los del conector procedentes de la carrocería del automóvil podrían ser de diferentes en color.

1 Conecte los conductores de color del cable de alimentación en el orden especificado en la ilustración de abajo.
2 Conecte el cable de antena.
3 Por último, conecte el cable de alimentación a la unidad.

Avant de commencer la connexion: *Vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil.*
Le fil du cordon d'alimentation et ceux des connecteurs du châssis de la voiture peuvent être différents en couleur.

1 *Connectez les fils colorés du cordon d'alimentation dans l'ordre spécifié sur l'illustration ci-dessous.*
2 *Connectez le cordon d'antenne.*
3 *Finalement, connectez le faisceau de fils à l'appareil.*

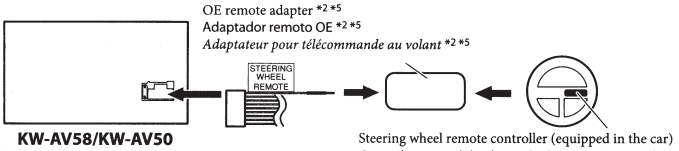

Light green
Verde claro
Vert clair
PARKING BRAKE
Crimp connector / Conector de sujeción / Raccord à sertir
To parking brake (see page 3)
Al freno de estacionamiento (consulte la página 3)
Au frein de stationnement (voir page 3)
(see page 3 / consulte la página 3 / voir page 3)
REVERSE GEAR SIGNAL
CAMERA IN
SUBWOOFER OUT
A B C D E
See each diagram on pages 4 – 6.
Vea cada uno de los diagramas en las páginas 4 – 6.
Référez-vous à chaque diagramme des pages 4 – 6.
Not used
No utilizado
Non utilisé
Fan
Ventilador
Ventilateur
10 A fuse / Fusible de 10 A / Fusible 10 A
Antenna terminal
Terminal de la antena
Borne de l'antenne
Rear ground terminal
Terminal de tierra posterior
Borne arrière de masse
Ignition switch
Interruptor de encendido
Interrupteur d'allumage
Black
Negro
Noir
(GND)
To metallic body or chassis of the car
A un cuerpo metálico o chasis del automóvil
Vers corps métallique ou châssis de la voiture
Yellow *3
Amarillo *3
Jaune *3
(BATT)
To a live terminal in the fuse block connecting to the car battery (bypassing the ignition switch) (constant 12 V)
A un terminal activo del bloque de fusibles conectado a la batería del automóvil (desviando el interruptor de encendido) (12 V constantes)
A une borne sous tension du porte-fusible connectée à la batterie de la voiture (en dérivant l'interrupteur d'allumage) (12 V constant)
Red
Rojo
Rouge
(ACC)
To an accessory terminal in the fuse block
A un terminal accesorio del bloque de fusibles
Vers borne accessoire du porte-fusible
Fuse block
Bloque de fusibles
Porte-fusible
Blue
Azul
Bleu
(POWER ANTENNA)
To automatic antenna if any (250 mA max.)
A la antena automática, si hubiere (250 mA máx.)
À l'antenne automatique s'il y en a une (250 mA max.)
Blue with white stripe
Azul con rayas blancas
Bleu avec bande blanche
(REMOTE LEAD)
To the remote lead of other equipment (200 mA max.)
Al conductor remoto del otro equipo (200 mA máx.)
Au fil de télécommande d'un autre appareil (200 mA max.)
Orange with white stripe
Naranja con rayas blancas
Orange avec bande blanche
(ILLUMINATION CONTROL)
To car light control switch
Al interruptor de control de las luces del automóvil
À l'interrupteur d'éclairage de la voiture
Brown
Marrón
Marron
(TEL MUTING)
To mobile phone system
Al sistema de teléfono celular
À un système de téléphone cellulaire
Blue with yellow stripe
Azul con rayas amarillas
Bleu avec bande jaune
(STEERING WHEEL REMOTE)
To the OE remote adapter *4/ Al adaptador para control remoto OE *4/ Au adaptateur pour télécommande au volant *4
White with black stripe
Blanco con rayas negras
Blanc avec bande noire
White
Blanco
Blanc
Gray with black stripe
Gris con rayas negras
Gris avec bande noire
Gray
Gris
Gris
Green with black stripe
Verde con rayas negras
Vert avec bande noire
Green
Verde
Vert
Purple with black stripe
Púrpura con rayas negras
Violet avec bande noire
Purple
Púrpura
Violet
Left speaker (front)
Altavoz izquierdo (delantero)
Enceinte gauche (avant)
Right speaker (front)
Altavoz derecho (delantero)
Enceinte droit (avant)
Left speaker (rear)
Altavoz izquierdo (trasero)
Enceinte gauche (arrière)
Right speaker (rear)
Altavoz derecho (trasero)
Enceinte droit (arrière)

A Connecting to the steering wheel remote controller / Conexión al control remoto del volante de dirección / Connexion de la télécommande de volant

If your car is equipped with the steering wheel remote controller, you can operate this unit using the controller. For connection, an exclusive remote adapter (not supplied) which matches your car is required. For details, consult the same car audio dealer as where the unit is purchased.

Si su vehículo está equipado con control remoto en el volante de dirección, podrá hacer funcionar este receptor utilizando dicho control. Para la conexión, se requiere un adaptador remoto exclusivo (no suministrado) que sea adecuado para su automóvil. Para los detalles, consulte con el concesionario car audio donde compró el receptor.

Si votre voiture est munie d'une télécommande de volant, vous pouvez commander cet autoradio en utilisant la télécommande. Pour la connexion, un adaptateur de télécommande exclusif (non fourni) correspondant à votre voiture est requis. Pour en savoir plus, consultez le revendeur autoradio auprès duquel vous avez acheté cet autoradio.


OE remote adapter *2 *5
Adaptador remoto OE *2 *5
Adaptateur pour télécommande au volant *2 *5
STEERING WHEEL REMOTE
KW-AV58/KW-AV50
Steering wheel remote controller (equipped in the car)
Control remoto del volante de dirección (equipado en el vehículo)
Télécommande de volant (installée dans la voiture)

*1 Only for KW-AV50.
*2 Not supplied for this unit.
*3 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise power cannot be turned on. Do not connect the lead directly to the battery.
*4 Do not connect the lead to any device other than the OE remote adapter. Doing so may cause malfunction.
*5 Alter the wire of the OE remote adapter to connect to the steering wheel remote lead.

*1 Sólo para KW-AV50.
*2 No suministrado con esta unidad.
*3 Antes de comprobar el funcionamiento de esta unidad previa a de la instalación, es necesario conectar este cable, de lo contrario no se podrá conectar la alimentación. No conecte el conductor directamente a la batería.
*4 No conecte el cable a ningún otro dispositivo que no sea el adaptador para control remoto OE. De lo contrario podría provocar un mal funcionamiento.
*5 Altere el cableado del adaptador para control remoto OE para conectar al conductor remoto del volante de dirección.

*1 *Uniquement pour le KW-AV50.*
*2 *Non fourni avec cet appareil.*
*3 *Pour vérifier le fonctionnement de cet appareil avant installation, ce fil doit être raccordé, sinon l'appareil ne peut pas être mis sous tension. Ne connectez pas le fil directement à la batterie.*
*4 *Ne connectez pas ce fil à aucun autre appareil que l'adaptateur de télécommande au volant. Cela pourrait causer un mauvais fonctionnement.*
*5 *Modifiez le fil de l'adaptateur de télécommande au volant pour le connecté au fil de télécommande de volant.*

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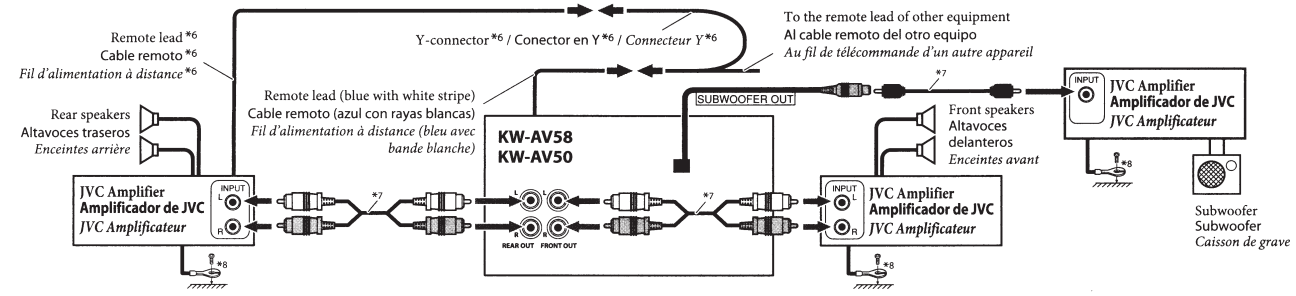
B Connecting the external amplifiers and subwoofer / Conexión de los amplificadores y subwoofer / Connexion d'amplificateurs extérieurs et d'un caisson de grave

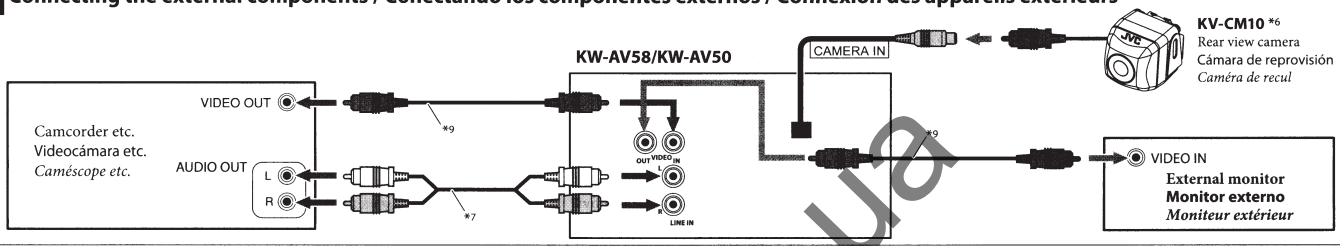
You can connect an amplifier to upgrade your car stereo system.
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, and connect them to the amplifier. Leave the speaker leads of this unit unused.**
- You can switch off the built-in amplifier and send the audio signals only to the external amplifier(s) to get clear sounds and to prevent internal heat built-up inside the unit. See page 45 of the INSTRUCTIONS.

Puede conectar amplificadores para mejorar su sistema car estéreo.
- Conecte el cable remoto (azul con rayas blancas) al cable remoto del otro equipo para poderlo controlar a través de esta unidad.
- **Desconecte los altavoces de esta unidad y conéctelos al amplificador. Los cables de los altavoces de esta unidad quedan sin usar.**
- Podrá desconectar el amplificador incorporado y enviar las señales de audio solamente al(los) amplificador(es) externo(s) para obtener sonidos nítidos y evitar que se caliente el interior de la unidad. Consulte la página 45 del MANUAL DE INSTRUCCIONES.

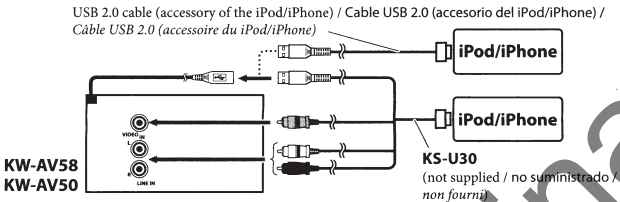
Vous pouvez connecter un amplificateur pour améliorer votre système autoradio.
- *Connectez le fil de commande à distance (bleu avec bande blanche) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé via cet appareil.*
- **Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés.**
- *Vous pouvez mettre hors service l'amplificateur intégré et envoyer les signaux audio uniquement sur un ou plusieurs amplificateurs extérieurs afin d'obtenir un son clair et d'éviter tout échauffement interne de l'autoradio. Voir page 45 du MANUEL D'INSTRUCTIONS.*



C Connecting the external components / Conectando los componentes externos / Connexion des appareils extérieurs



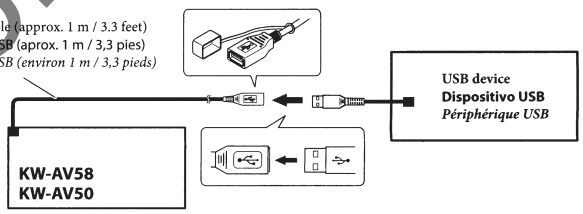
Connecting the iPod or the iPhone / Conexión del iPod o iPhone / Connexion d'un iPod ou d'un iPhone


USB 2.0 cable (accessory of the iPod/iPhone) / Cable USB 2.0 (accesorio del iPod/iPhone) / Câble USB 2.0 (accessoire du iPod/iPhone)
iPod/iPhone
iPod/iPhone
KW-AV58
KW-AV50
KS-U30
(not supplied / no suministrado / non fourni)

- **To watch video**, connect the iPod/iPhone using JVC KS-U30 *10 (separately purchased), otherwise, video is not displayed on the screen.
- **To listen to music**, connect the iPod/iPhone using a USB 2.0 cable (accessory of the iPod/iPhone).
- **Para ver video**, conecte el iPod/iPhone mediante el JVC KS-U30 *10 (en venta por separado); de lo contrario, no aparecerá video en la pantalla.
- **Para escuchar música**, conecte el iPod/iPhone mediante un cable USB 2.0 (accesorio del iPod/iPhone).
- ***Pour voir une séquence vidéo**, connectez l'iPod/iPhone en utilisant le JVC KS-U30 *10 (vendu séparément), sinon, l'image vidéo n'apparaît pas sur l'écran.*
- ***Pour écouter la musique**, connectez l'iPod/iPhone en utilisant le câble USB 2.0 (accessoire du iPod/iPhone).*

- iPod and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.

USB devices / Dispositivos USB / Périphériques USB

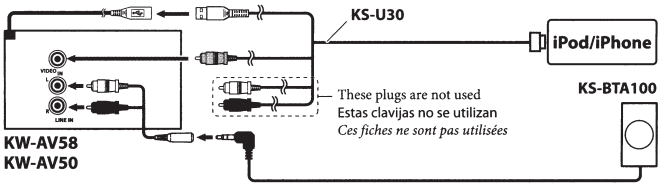

USB cable (approx. 1 m / 3.3 feet)
Cable USB (aprox. 1 m / 3,3 pies)
Câble USB (environ 1 m / 3,3 pieds)
USB device
Dispositivo USB
Périphérique USB
KW-AV58
KW-AV50

When connecting the iPod/iPhone for video playback (using KS-U30) and the Bluetooth adapter (KS-BTA100) at the same time

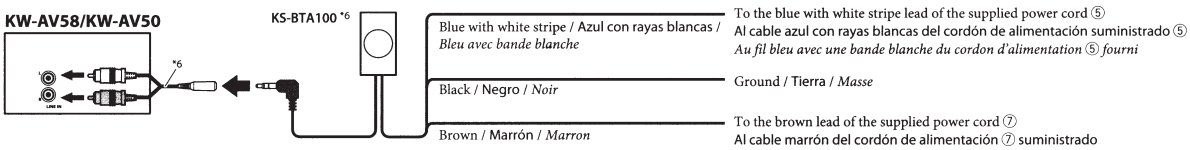
En caso de conectar simultáneamente el iPod/iPhone para la reproducción de video (con el KS-U30) y el adaptador Bluetooth (KS-BTA100)

Lors de la connexion d'un iPod/iPhone pour la lecture vidéo (en utilisant le KS-U30) et de l'adaptateur Bluetooth (KS-BTA100) en même temps

- For details about connecting the Bluetooth adapter, see below.
- Para obtener más información sobre la conexión del adaptador Bluetooth, véase debajo.
- *Pour en savoir plus sur la connexion d'un adaptateur Bluetooth, référez-vous à ce que suit.*



D Connecting the Bluetooth adapter / Conexión del adaptador Bluetooth / Connexion de l'adaptateur Bluetooth


KW-AV58/KW-AV50
KS-BTA100 *6
*6
Blue with white stripe / Azul con rayas blancas / Bleu avec bande blanche
Black / Negro / Noir
Brown / Marrón / Marron
To the blue with white stripe lead of the supplied power cord ⑤
Al cable azul con rayas blancas del cordón de alimentación suministrado ⑤
Au fil bleu avec une bande blanche du cordon d'alimentation ⑤ fourni
Ground / Tierra / Masse
To the brown lead of the supplied power cord ⑦
Al cable marrón del cordón de alimentación ⑦ suministrado
Au fil marron du cordon d'alimentation ⑦ fourni

See page 51 of the INSTRUCTIONS. / Consulte la página 51 del MANUAL DE INSTRUCCIONES. / *Voir page 51 du MANUEL D'INSTRUCTIONS.*

*6 Not supplied for this unit.
*7 Audio cord (not supplied for this unit).
*8 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.
*9 Video cord (not supplied for this unit).
*10 When using the cable, you need to change the setting on the unit (see page 27 of the INSTRUCTIONS).

*6 No suministrado con esta unidad.
*7 Cable de audio (no suministrado con esta unidad).
*8 Fije firmemente el cable de tierra a la carrocería metálica o al chasis—a un lugar no cubierto con pintura (si está cubierto con pintura, quítela antes de fijar el cable). De lo contrario, se podrían producir daños en la unidad.
*9 Cordón de video (no suministrado con esta unidad).
*10 Cuando utilice el cable, deberá cambiar el ajuste en la unidad (consulte la página 27 del MANUAL DE INSTRUCCIONES).

*6 *Non fourni avec cet appareil.*
*7 *Cordon audio (non fourni avec cet appareil).*
*8 *Attachez solidement le fil de mise à la masse au châssis métallique de la voiture—à un endroit qui n'est pas recouvert de peinture (s'il est recouvert de peinture, enlevez d'abord la peinture avant d'attacher le fil). L'appareil peut être endommagé si cela n'est pas fait correctement.*
*9 *Cordon vidéo (non fourni avec cet appareil).*
*10 *Lors de l'utilisation du câble, vous devez changer le réglage sur l'appareil (voir page 27 du MANUEL D'INSTRUCTIONS).*

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E Connecting external components (Only for KW-AV50) / Conexión de los componentes externos (Sólo para KW-AV50) / Connexion d'appareils extérieurs (Uniquement pour le KW-AV50)

When connecting the external components, refer also to the manuals supplied for the components and adapter.

CAUTION: Before connecting the external components, make sure that the unit is turned off.

You can connect the following JVC components to the expansion port.

JVC component	Model name
HD Radio™ tuner box	KT-HD300

You can connect the following components to the extension port using the appropriate JVC adapter.

- Connection cords may need to be purchased separately.

Component	Adapter	Model name
XMDirect™ Tuner Box	Smart Digital Adapter	XMDJVC100
XMDirect2 Tuner System	XM Satellite Radio System	CNP2000UCA and CNPJVC1
SIRIUS Satellite Radio	SIRIUS Satellite Radio System	SCC1 and KS-SRA100
		D&P, SCVDOC1 and KS-SRA100

- XM Radio and SIRIUS satellite radio cannot be used together.

Cuando conecte componentes externos, consulte, también, los manuales suministrados con los componentes y el adaptador.

PRECAUCIÓN: Antes de conectar los componentes externos, asegúrese de que la unidad esté apagada.

Puede conectar los siguientes componentes JVC al puerto de expansión.

Componente JVC	Nombre del modelo
Sintonizador HD Radio™	KT-HD300

Puede conectar los siguientes componentes al puerto de extensión utilizando el adaptador JVC apropiado.

- Puede ser necesario comprar los cables de conexión por separado.

Componente	Adaptador	Nombre del modelo
XMDirect™ Tuner Box	Adaptador digital inteligente	XMDJVC100
Sistema de sintonizador XMDirect2	Sistema de radio XM Satellite	CNP2000UCA y CNPJVC1
Radio por satélite SIRIUS	Sistema de radio satelital SIRIUS	SCC1 y KS-SRA100
		D&P, SCVDOC1 y KS-SRA100

- No puede utilizar juntas la radio XM y la radio satelital SIRIUS.

Lors de la connexion des appareils extérieurs, référez-vous aussi aux manuels fournis avec les appareils et les adaptateurs.

PRECAUTION: Avant de connecter les appareils extérieurs, assurez-vous que l'appareil est hors tension.

Vous pouvez connecter les appareils JVC suivants au port d'extension.

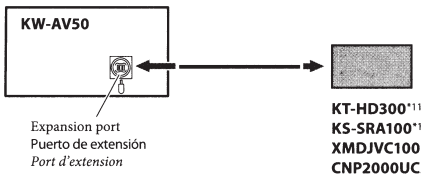
Appareil JVC	Nom du modèle
Tuner HD Radio™	*KT-HD300*

Vous pouvez connecter les appareils suivants au port d'extension en utilisant l'adaptateur JVC approprié.

- *Vous pouvez avoir besoin d'acheter certains cordons de connexion séparément.*

Appareil	Adaptateur	Nom du modèle
XMDirect™ Tuner Box	*Adaptateur numérique intelligent*	*XMDJVC100*
XMDirect2 Tuner System	*Système radio satellite XM*	*CNP2000UCA et CNPJVC1*
Radio satellite SIRIUS	*Système radio satellite SIRIUS*	*SCC1 et KS-SRA100*
		D&P, SCVDOC1 et KS-SRA100

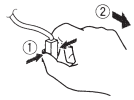
- *La radio XM et SIRIUS ne peuvent pas être utilisées en même temps.*



Ready to receive HD Radio broadcasts when connected to the KT-HD300, sold separately

To disconnect the connector / Para desconectar el conector / *Pour déconnecter le connecteur*

Grip the connector top tightly (①).
Sostenga el conector con firmeza (①).
Tenez fermement le haut de l'adaptateur (①).



Pull out (②).
Extráigalo (②).
Tirez (②).

*11 Power cannot be supplied to the component through the expansion port. You need to connect the power cord supplied for the component separately.
*12 This model is a component of SIRIUS Satellite Radio System.
*13 This model is a component of XM Satellite Radio System.

*11 La alimentación no se puede suministrar al componente a través del puerto de expansión. Es necesario conectar, aparte, el cable de alimentación suministrado con el componente.
*12 Este modelo es un componente del sistema de radio satelital SIRIUS.
*13 Este modelo es un componente del sistema de radio XM Satellite.

*11 *L'alimentation ne peut pas être fournie à l'appareil par le port d'extension. Vous devez connecter séparément le cordon d'alimentation fourni pour l'appareil.*
*12 *Ce modèle est un composant du système radio satellite SIRIUS.*
*13 *Ce modèle est un composant du système radio satellite XM.*

TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?
- **Power cannot be turned on.**
* Is the yellow lead connected?
- **No sound from the speakers.**
* Is the speaker output lead short-circuited?
- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
- **This unit becomes hot.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?
- **This unit does not work at all.**
* Have you reset your unit?

LOCALIZACIÓN DE AVERÍAS

- **El fusible se quema.**
* ¿Están los conductores rojo y negro correctamente conectados?
- **No es posible conectar la alimentación.**
* ¿Está el cable amarillo conectado?
- **No sale sonido de los altavoces.**
* ¿Está el cable de salida del altavoz cortocircuitado?
- **El sonido presenta distorsión.**
* ¿Está el cable de salida del altavoz conectado a masa?
* ¿Están los terminales "–" de los altavoces L y R conectados a una masa común?
- **Perturbación de ruido.**
* ¿El terminal de tierra trasero está conectado al chasis del automóvil utilizando los cordones más corto y más grueso?
- **La unidad se calienta.**
* ¿Está el cable de salida del altavoz conectado a masa?
* ¿Están los terminales "–" de los altavoces L y R conectados a una masa común?
- **Este receptor no funciona en absoluto.**
* ¿Reinicializó el receptor?

EN CAS DE DIFFICULTES

- **Le fusible saute.**
* *Les fils rouge et noir sont-ils racordés correctement?*
- **L'appareil ne peut pas être mise sous tension.**
* *Le fil jaune est-elle raccordée?*
- **Pas de son des enceintes.**
* *Le fil de sortie d'enceinte est-il court-circuité?*
- **Le son est déformé.**
* *Le fil de sortie d'enceinte est-il à la masse?*
* *Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?*
- **Interférence avec les sons.**
* *La prise arrière de mise à la terre est-elle connectée au châssis de la voiture avec un cordon court et épais?*
- **L'appareil devient chaud.**
* *Le fil de sortie d'enceinte est-il à la masse?*
* *Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?*
- **Cet appareil ne fonctionne pas du tout.**
* *Avez-vous réinitialisé votre appareil?*

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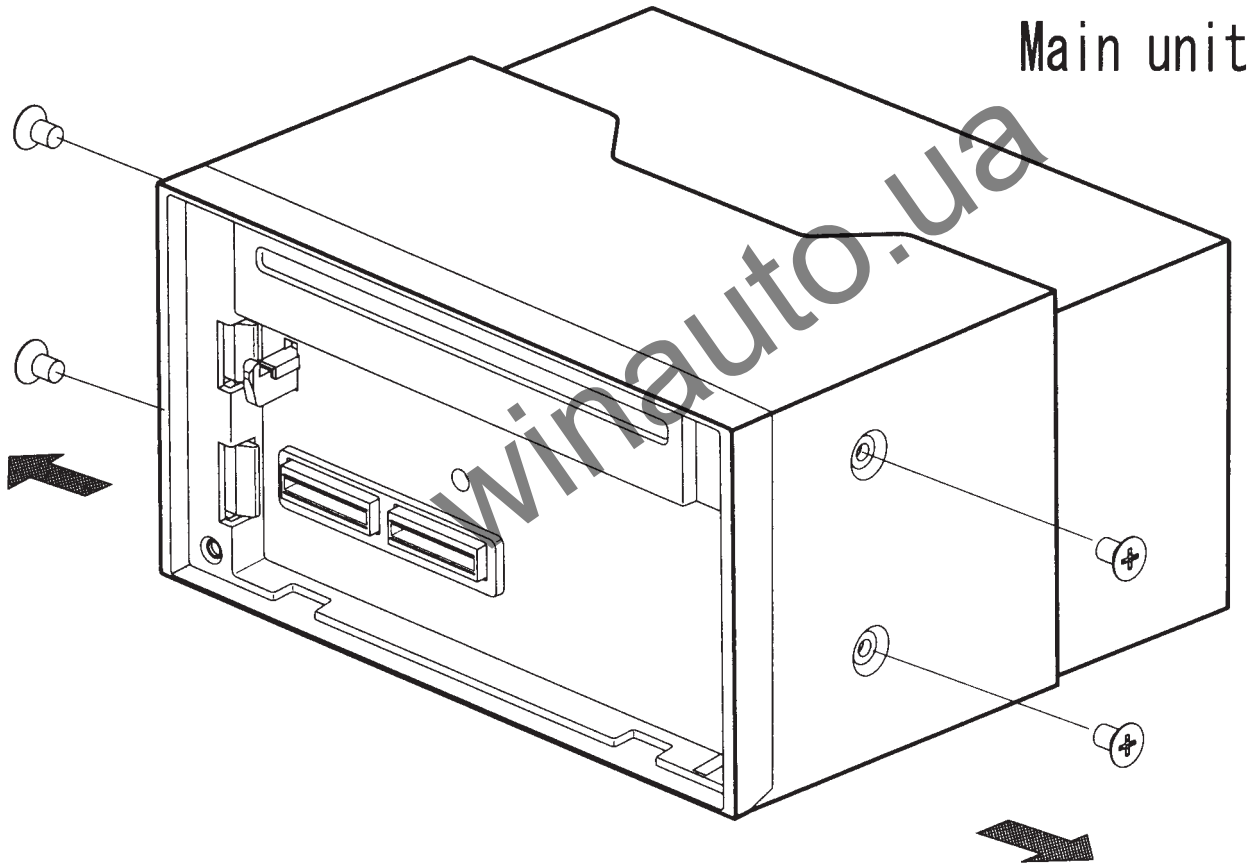
Before installation, remove the screws.



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Attaching screw × 4 (M5 × 8mm)

LV44661-009A

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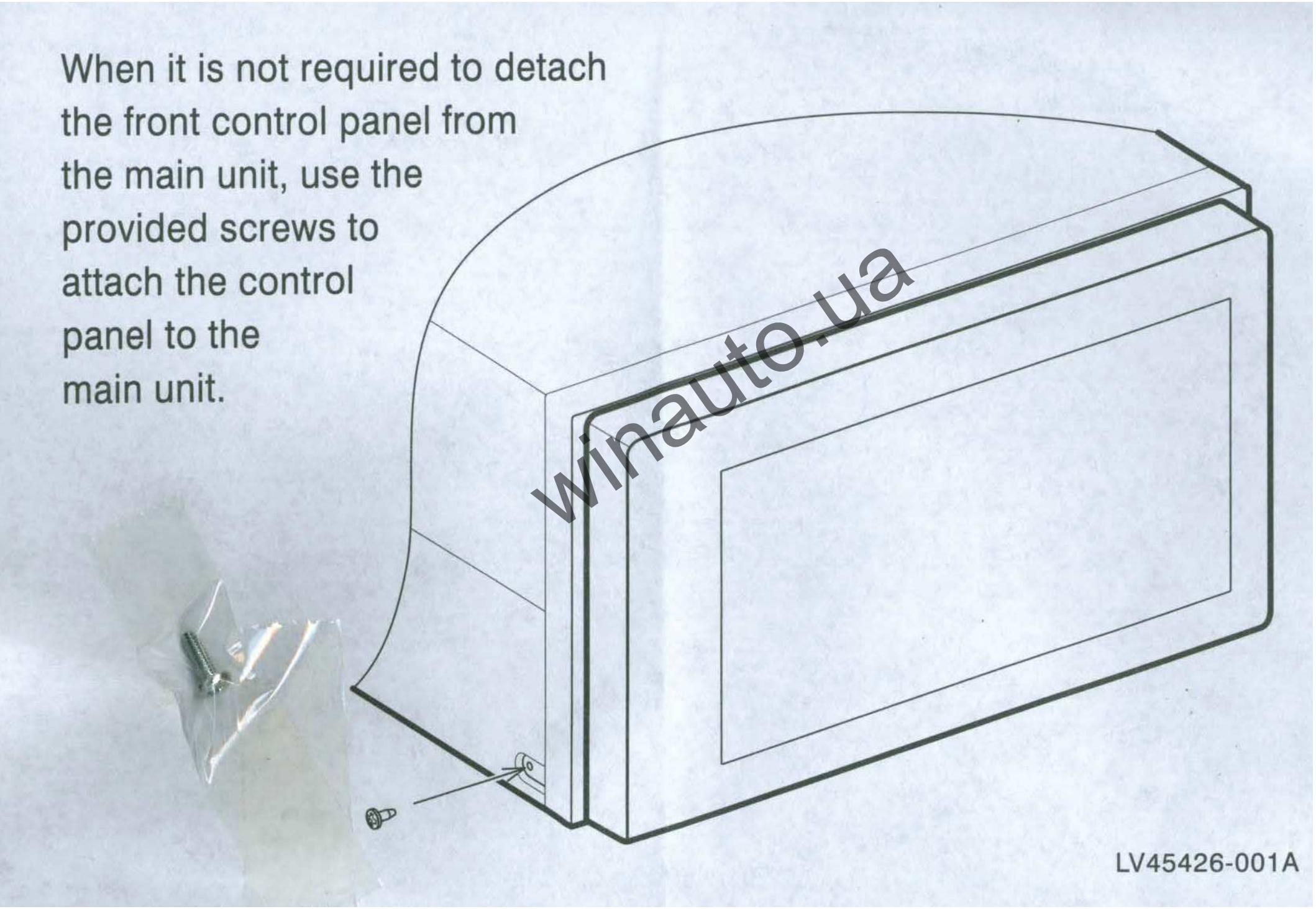
When it is not required to detach the front control panel from the main unit, use the provided screws to attach the control panel to the main unit.



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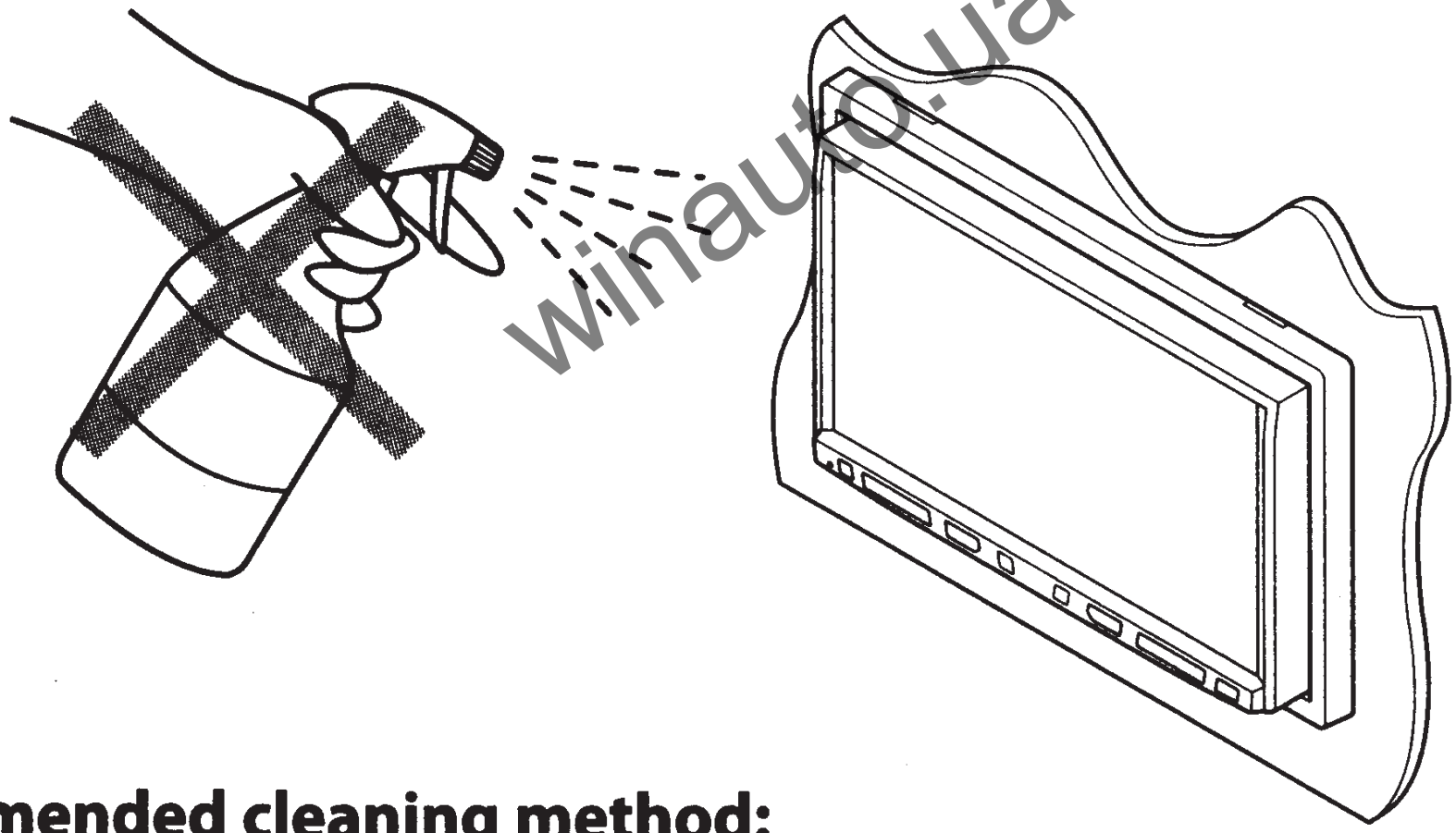
Caution on cleaning the unit

Do not use any solvent (for example, thinner, benzine, etc.), detergent, or insecticide. This may damage the monitor or the unit.



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Recommended cleaning method:

Gently wipe the panel with a soft, dry cloth.

LVT1970-001A

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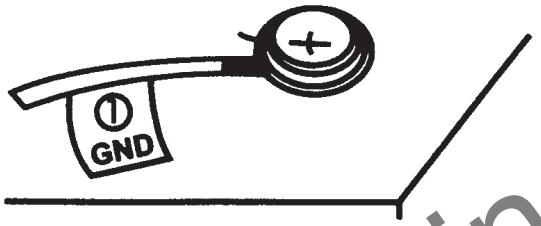
REMOVE THIS LABEL FROM CABLE BEFORE USE.
RETIRE LA ETIQUETA DEL CABLE ELÉCTRICO ANTES DE USAR.
RETIREZ CETTE ÉTIQUETTE DU CÂBLE AVANT UTILISATION.

CAUTION

**CONNECT BLACK WIRE (① GND) TO GROUND FIRST.
OTHERWISE, DAMAGE TO YOUR UNIT MAY OCCUR.**

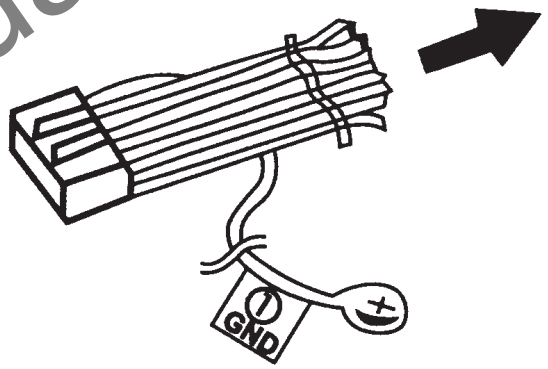
**INCORRECT CONNECTION CAUSES SERIOUS DAMAGE TO THIS UNIT
PLEASE READ INSTALLATION/CONNECTION MANUAL CAREFULLY.**

① CONNECT GROUND FIRST

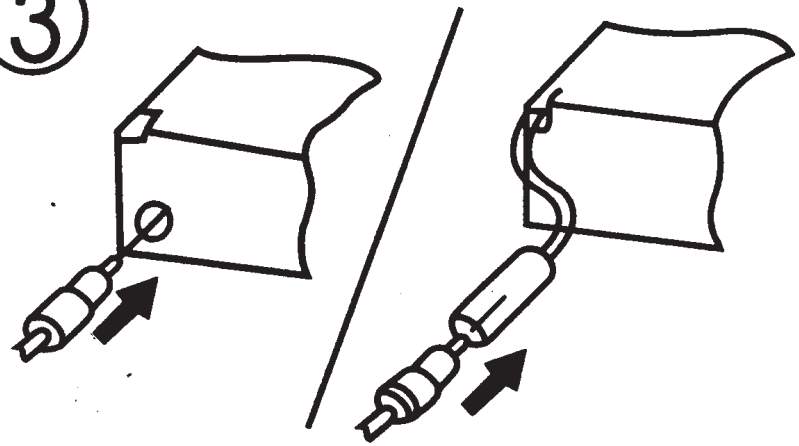


METALLIC BODY OR CHASSIS
OF THE CAR

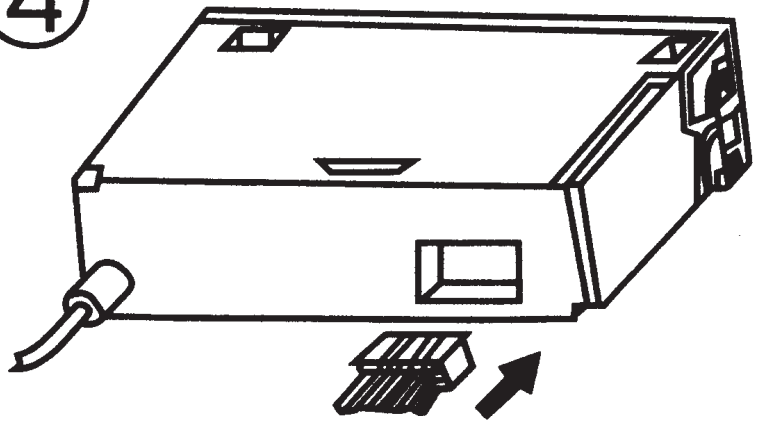
② CONNECT OTHER WIRES



③ CONNECT ANTENNA TERMINAL



④ CONNECT POWER CORD TO THE UNIT



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Please do not send products or other correspondence to this address.

JVC AMERICAS CORP.
1700 Valley Road
Wayne, NJ 07470

PLEASE PLACE STAMP HERE

JVC®

PO BOX 1189
BEDFORD, TX 76095-1189

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PRODUCT REGISTRATION CARD / QUESTIONNAIRE

USA CUSTOMERS ONLY

Registering your product will allow us to contact you in the unlikely event a product safety notification is required.

This form is for Product Registration purposes only. Failure to return this form does not diminish your rights during the warranty period.

THANK YOU FOR PURCHASING THIS JVC PRODUCT

REGISTER ONLINE AT: *REGISTER.JVC.COM*

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JVC®

Register online at REGISTER.JVC.COM
and receive a special offer!

PRODUCT REGISTRATION

First Name: _____

Last Name: _____

Address: _____

Apt.# _____

City: _____

State: _____

Zip Code: _____

Phone Number: _____

E-Mail Address: _____

1) Would you like to receive the JVC Community e-mail newsletter? Yes No

2) Would you like to receive special offers from JVC? Yes No

3) Have you purchased an extended warranty for this product? Yes No

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Date of Purchase _____

Model Number: _____

Serial Number: _____

Purchase Price: _____

Dealer: _____

On a scale of 1 to 5, with 5 being the best, please rate each of the following attributes about your new JVC product.

Performance	1	2	3	4	5
Features	1	2	3	4	5
Ease of use	1	2	3	4	5
Design	1	2	3	4	5
Value	1	2	3	4	5

COMMENTS:

_____

_____

_____

Thank You
for completing
this questionnare.

Instructions: Fold at crease and tape open edge in the middle.

BT-51044-1
(0208)

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CANADA ONLY

JVC

CANADA SEULEMENT

OWNER'S COPY OF WARRANTY CARD
COPIE D'ENREGISTREMENT DE LA GARANTIE DU PROPRIÉTAIRE

(Save sales docket together with this warranty card, as a proof of date of purchase.
La facture et cette garantie sont vos preuves de la date d'achat; rangez-les.)

MODEL / MODÈLE : ..... SERIAL NO. / NO DE SÉRIE : .....

Purchase from / Acheté chez : ..... Date purchased / Date acheté : .....

Dealer's Address / Adresse du Vendeur : .....

No. / No — Street / Rue

.....

City or Town / Ville — Prov. / Prov. — Postal Code / Code Postal

Owner's Name / Nom du Proprietaire : .....

Owner's Address / Adresse du Proprietaire : .....

No. / No — Street / Rue — Apt. / App.

.....

City or Town / Ville — Prov. / Prov. — Postal Code / Code Postal

BT-52008-1
(1007)

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Detach here. à découper ici

WARRANTY CONTROL CARD
CARTE DE CONTRÔLE DE LA GARANTIE

IMPORTANT: This warranty control card must be filled in and posted to the address indicated on the back hereof or register via internet within 7 (seven) days from the date of purchase.
IMPORTANT: Cette carte doit être renvoyée dûment remplie à l'adresse indiquée au verso, dans les 7 jours de la date d'achat ou aller sur le site par internet pour l'enregistrement.

(PLEASE PRINT/EN LETTRES MOULÉES)

MODEL / MODÈLE : ..... SERIAL NO. / NO DE SÉRIE : .....

Purchased from / Acheté chez : ..... Date purchased / Date acheté : .....

Dealer's Address / Adresse du Vendeur : .....

No. / No — Street / Rue

.....

City or Town / Ville — Prov. / Prov. — Postal Code / Code Postal

Owner's Name / Nom du Proprietaire : .....

Owner's Address / Adresse du Proprietaire : .....

No. / No — Street / Rue — Apt. / App.

.....

City or Town / Ville — Prov. / Prov. — Postal Code / Code Postal

You may also register on-line at:www.jvc.ca

Vous pouvez également vous inscrire par internet à:www.jvc.ca

WARRANTY APPLIES ONLY TO PRODUCT DISTRIBUTED IN CANADA BY JVC CANADA INC.

LA GARANTIE S'APPLIQUE SEULEMENT AUX PRODUITS DISTRIBUES AU CANADA PAR JVC CANADA INC.

Warranty applies only to PRODUCT distributed in Canada by JVC Canada Inc.

JVC

La garantie s'applique seulement aux PRODUITS distribués au Canada par JVC Canada Inc.

WARRANTY
GARANTIE

JVC CANADA INC.
21 Finchdene Square, Toronto, ON M1X 1A7
TEL: (416) 293-1311 FAX: (416) 293-8208
http://www.jvc.ca

JVC CANADA INC. (hereafter called "JVC") gives the following express warranty for each new JVC product distributed in Canada by JVC and sold by an authorized JVC dealer.
JVC warrants that this JVC product is free, under normal use and maintenance, from any defects in material and workmanship subject to the following terms and conditions:

1. To Obtain Warranty Service:
   (a) The JVC Warranty Control Card herein provided must be completed in full and posted or registered via internet within 7 days of date of purchase of the JVC product.
   (b) This JVC Warranty Control Card must be completed in full and presented together with proof of purchase of the JVC product requiring service.
   (c) The JVC product must be brought in for service to an authorized JVC Service Centre.

2. Limitation:
   This Warranty shall not apply to:
   (a) Repair or replacement of any cabinets, batteries, plates, connection cords, antennas, dust covers, knobs, speaker grills, speaker cones, projection screens, projection screen savers, and all accessories.
   (b) Any defects caused or repairs required as a result of misuse, abusive operation, negligence, improper use and/or insufficient care.
   (c) Any defect caused or repairs required as a result of not following the instructions in the operation manual.
   (d) Any JVC product tampered with, adjusted or repaired by any party other than JVC or authorized JVC Service Centre personnel.

JVC CANADA INC. (ci-après appelé "JVC") énonce la garantie expresse suivante pour tout nouveau produit JVC distribué au Canada par JVC et vendu par un détaillant JVC autorisé.
JVC vous garantit que ce produit est dégagé, sous utilisation et entretien normal, de tout défaut matériel et de fabrication sous réserve des modalités et conditions suivantes :

1. Pour obtenir un service de garantie :
   (a) La carte de contrôle de garantie JVC ci-incluse doit être complétée avec les renseignements complets et être postée ou enregistrée via internet dans les 7 jours suivant l'achat du produit JVC.
   (b) Cette carte de contrôle de garantie JVC doit être dûment remplie et être présentée avec la preuve d'achat du produit JVC nécessitant une réparation.
   (c) Le produit JVC doit être apporté pour service chez un centre de service JVC autorisé.

2. Restrictions:
   Cette garantie ne s'applique pas aux :
   (a) Réparation ou remplacement de tout cabinet, batteries, panneau avant, cordons de raccord, antennes, housses de protection, boutons, couverts de haut-parleur, cônes de haut-parleur, écrans de projection, protecteurs d'écran de projection et tous les accessoires.
   (b) Tous défauts occasionnés ou réparations requises suite à une utilisation abusive, mauvaise, négligente et/ou une utilisation incorrecte.
   (c) Tous défauts occasionnés ou réparations requises suite à l'omission de suivre les recommandations du manuel d'instruction.
   (d) Tout produit JVC altéré, ajusté ou réparé par tout autre entreprise que JVC ou un centre de service d'entretien ou de service autorisé JVC.

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(e) Any JVC products on which the serial num-ber has been defaced, modified or removed.
(f) Maintenance, cleaning or periodic check-up
(g) Conversion to foreign or domestic voltage or frequency.
(h) Any JVC product without the Canadian Electrical Safety Regulations ID.
(i) Any JVC products used for commercial or institutional, rental, or display purposes.
Parts.....1 year (except video head - 90 days)
Labour... 90 days
(j) Any JVC product which has been resold and no longer owned by the original purchaser.
(k) Product purchased from "outside Canada", "bankruptcy" or "liquidator".

(e) Tout produit JVC dont le numéro de série a été altéré, modifié ou enlevé.
(f) L'entretien, les vérifications périodiques et nettoyage.
(g) La conversion à une fréquence ou une tension étrangère ou domestique.
(h) Tout produit JVC n'ayant pas le sigle d'identification conforme aux normes électriques Canadiennes (CSA).
(i) Pour tout produit utilisé à des fins commerciales, institutionnelles, de location ou utilisé à des fins d'étalage.
Pièces..... 1 An (Excepté les têtes vidéo- 90 jours)
Main d'œuvre... 90 Jours
(j) Tout produit JVC ayant été revendu et qui n'est plus la propriété de l'acheteur original.
(k) Produit acheté à "l'extérieur du Canada", provenant d'une "faillite" ou d'un "liquidateur".

WARRANTY TERM (VALID FROM THE DATE OF PURCHASE)
CONDITIONS DE GARANTIE (VALABLE à PARTIR DE LA DATE D'ACHAT)

PRODUCT PRODUIT	PARTS (Years) PIECES (années)	Labour (Years) MAIN-D'OEUVER (années)
Projection TV In-Home Service Colour TV In-Home (25" and above) D-ILA Rear Projection In-Home Service LCD TV In-Home Service (25" and above) Écrans de projection Service à Domicile Écrans de TV Couleur Service à Domicile (25" et plus) TV projection arrière D-ILA Service à Domicile Écrans de LCD Service à Domicile (25" et plus)	1	1
* In-home service to be provided where available Where it is not available, the Purchaser must assume the responsibility and expense for the proper packing, shipment and all costs associated with the delivery of the equipment to and from the closest JVC Authorized Service Centre. * Service à domicile fourni par un détaillant disponible. S'il n'y a pas de service JVC disponible à proximité, l'acheteur doit assumer la responsabilité et les coûts pour un emballage adéquat, l'expédition, ainsi que tous les coûts associés à la livraison de l'équipement chez et depuis le détaillant JVC autorisé le plus près pour un service d'entretien.		
Receivers and Home Speakers purchased separately, Front Projection and Car Audio "ARSENAL" Series Récepteurs et Hauts-Parleurs achetés séparément, Projecteur Avant et Audio d'Auto de Série « ARSENAL »	2	2
AC Adapters, Remote Controls, Headphones, Microphones and Projector Lamps Adaptateurs AC, Télécommande, Casque D'écoute, Microphones et Lampe de Projecteur	90 DAYS 90 JOURS	90 DAYS 90 JOURS
Wood Cone Speakers Enceinte à Cône en Bois	5	5
All Other Categories Toutes les autres catégories	1	1

(l) Any defects caused by fire, flood, lightning, power surge, or other events beyond the control of JVC.
(m) FOR AUTO PRODUCTS
Warranty does not cover elimination of car static or electrical interferences, cleaning of head, adjustments, or labour cost for the removal or reinstallation of the unit for repair.

3. Standards:
If any defects should be found in a JVC product within the applicable terms, necessary repairs shall be made at no cost to the purchaser for parts or labour when JVC acknowledges that such defects are due to faulty material or work-manship.

4. Exclusion of All Other Express Warranties:
This warranty constitutes the entire express warranty given by JVC for JVC products and no dealer or service centre personnel or his, its or their agent or employee is, or are autho-rized to extend or enlarge this warranty on be-half of JVC.

5. Disclaimer of Consequential Damage:
To the extent the law permits JVC disclaims any responsibility for loss of time or use of its product, transportation costs, or any other indirect, incidental or consequential damage or inconvenience.

New

And mail to the address below.
You may also register on-line at:www.jvc.ca

(l) Tout dommage causé par le feu, une inondation, un éclair, une surtension ou tout autre évènement hors du contrôle de JVC.
(m) POUR LES PRODUITS D'AUTOMOBILE
La garantie ne couvre pas l'élimination d'interférences statiques ou électriques de la voiture, le nettoyage de tête, les ajustements et les coûts de main d'œuvre associés à l'enlèvement ou à la réinstallation de l'unité pour réparation.

3. Critères:
Si un produit JVC s'avérait défectueux, selon les conditions applicables, les réparations nécessaires seront effectués sans coûts additionnels à l'acheteur pour les pièces et la main d'œuvre lorsque JVC reconnaît que de telles défectuosités sont causées par une défectuosité de matériel ou de fabrication.

4. Exclusion de toutes autres garanties expresses :
Cette garantie constitue l'entière garantie express donnée par JVC pour les produits JVC. Nul représentant ou employé d'un détaillant ou d'un service d'entretien n'est autorisé à prolonger cette garantie au nom de JVC.

5. Dénégation des dommages indirects :
Dans la mesure permise par la loi, JVC nie toute responsabilité pour perte de temps ou d'usage de ses produits, des coûts de transport ou tout autre dommage ou inconvénient indirect, accidentel et conséquent.

Nouveau

Veuillez poster à l'adresse ci-dessous.
Vous pouvez également vous enregistrer par internet à; www.jvc.ca

Detach here. à découper ici

Place stamp here

Placez votre timbre ici

JVC CANADA INC.

21 Finchdene Square
Toronto, ON M1X 1A7

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Интернет-магазин автозвука и автотоваров Винавто

TO OUR VALUED CUSTOMER

THANK YOU FOR PURCHASING THIS JVC PRODUCT.

WE WANT TO HELP YOU ACHIEVE A PERFECT EXPERIENCE.

NEED HELP ON HOW TO HOOK UP?
NEED ASSISTANCE ON HOW TO OPERATE?
NEED TO LOCATE A JVC SERVICE CENTER?
LIKE TO PURCHASE ACCESSORIES?

JVC® IS HERE TO HELP!

TOLL FREE: 1(800)252-5722

http://www.jvc.com

winauto.ua

Remember to retain your Bill of Sale for Warranty Service.

Do not attempt to service the product yourself

Caution

To prevent electrical shock, do not open the cabinet.
There are no user serviceable parts inside.
Please refer to qualified service personnel for repairs.

BT-51018-6
(1008)

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JVC®

LIMITED WARRANTY

1-1 USA ONLY

ONLY FOR PRODUCT PURCHASED IN U.S.A.

JVC Americas Corp. (JVC) warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL RETAIL PURCHASER to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period shown below. ("The Warranty Period")

PARTS	LABOR
1 YR	1 YR

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective within the warranty period, JVC will repair or replace defective parts with new or rebuilt equivalents at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products may be brought to a JVC authorized service center on a carry-in basis. Color televisions with a screen size of 37"class or greater qualify for in-home service. In such cases, a technician will come to your home and either repair the TV there or remove and return it if it cannot be repaired in your home.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Please do not return your product to the retailer

Instead, return your product to the JVC authorized service center nearest you. If shipping the product to the service center, please be sure to package it carefully, preferably in the original packaging, and include a brief description of the problem(s). Please call 1-800-252-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website http://www.jvc.com. If your product qualifies for in-home service, the service representative will require clear access to the product.

If you have any questions concerning your JVC Product, please contact our Customer Care Center at 800-252-5722

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation, installation and removal from cabinets or mounting systems.
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. User Removal Memory Devices/Video Pick-up Tubes/CCD Image Sensors are covered for 90 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase);
9. Products used for commercial purposes, including, but not limited to rental.
10. Loss of data resultant from malfunction of hard drive or other data storage device;

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE, OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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winavto.ua

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAIL OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. : _____ Serial No. : _____

Purchase date : _____ Name of dealer : _____